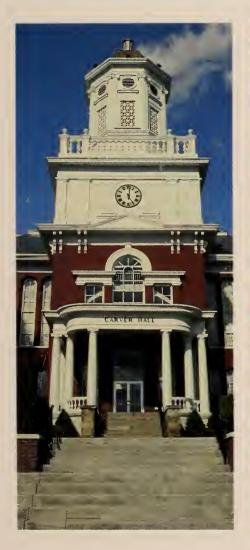
Bloomsburg University







Graduate Catalogue

1987-88

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BLOOMSBURG UNIVERSITY OF PENNSYLVANIA

Graduate Catalogue



1987-88

Prepared July 1, 1987

Bloomsburg University is committed to providing equal educational and employment opportunities for all persons without regard to race, color, religion, sex, age, national origin, ancestry, lifestyle, affectional or sexual preference, handicap, Vietnam era veteran, or union membership. The university is additionally committed to affirmative action and will take positive steps to provide such educational and employment opportunities. Inquiries may be directed to the Director of Affirmative Action, Carver Hall, Bloomsburg University, Bloomsburg, Pa. 17815 (717) 389-4528.

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Graduate Calendar 1987-1988 Academic Year

1987--FALL SEMESTER

your graduate adviser.

Aug. 21	Final date of graduate registration for fall semester	Jan. 8
Aug. 31	Classes begin for fall semester at 6 p.m.	Jan. 18
Sept. 7	Labor Day-no classes	Jan. 29
Oct. 2	Final date for submitting application for	
	December graduation	March
Nov. 25	Thanksgiving recess begins at 1:50 p.m.	March
Nov. 30	Thanksgiving recess ends-classes resume 8	April 1
	a.m.	April 4
Dec. 11	Final date for completion of master's thesis, departmental paper, and/or comprehensive examinations	May 2
Dec. 19	End of fall semester	May 14
Dec. 20	Commencement	May 15

The university reserves the right to adjust calendar dates as necessary. For exact dates concerning your program, consult

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1988--SPRING SEMESTER

	semester
Jan. 18	Classes begin for spring semester at 6 p.m.
Jan. 29	Final date for submitting application for
	May graduation
March 5	Spring recess begins
March 14	Spring recess ends-classes resume 8 a.m.
April 1	Spring Weekend begins at 10 p.m.
April 4	Spring Weekend ends-classes resume 6 p.m.
May 2	Final date for completion of master's thesis,
	departmental paper, and/or comprehensive
	examinations
May 14	End of spring semester
May 15	Commencement

Final date of graduate registration for spring

GENERAL INFORMATION

Introduction

Bloomsburg University of Pennsylvania is one of 14 universities in the Pennsylvania State System of Higher Education. In addition to 67 undergraduate degree programs, the School of Graduate Studies provides a variety of quality post-baccalaureate programs for students. A doctoral program in elementary education is offered in cooperation with Indiana University of Pennsylvania.

Organization

Bloomsburg University has more than 6,500 students and is organized as four colleges: Arts and Sciences, Professional Studies, Business, and Graduate Studies and Extended Programs. The scope and internal structure of each college is described in the succeeding chapters of this catalogue.

Mission and purpose

The School of Graduate Studies provides a variety of quality post-baccalaureate programs for students seeking to expand their educational background and training. Programs are provided in scholarly and professional education to meet the needs of society and the educational goals of students. To accomplish these objectives, the school seeks to:

- provide programs of graduate study in the arts, humanities, sciences, and professions to enhance students' capacity for creative problem solving, critical thinking, and application of knowledge to improve the qualify of life;
- provide access to graduate education for students who wish to study part-time while living and working in the community and for those who wish to pursue advanced study full-time;
- provide programs of graduate study for students who are seeking to prepare and qualify for professional status;
- provide gradaute education that enables students to prepare and pursue for a career in the liberal arts and sciences;
- Provide graduate programs that augment the students' applied skills and knowledge;
- provide needed programs and services for individuals and agencies within the university's service community; and
- plan graduate programs to meet developing and future needs of society and the educational goals of its students.

Location

Bloomsburg University is located in the Town of Bloomsburg, the county seat of Columbia County, Pa. The industrial, trading, and residential community of nearly 12,000 is located 80 miles northeast of the state capital of Harrisburg. Bloomsburg is within two miles of two interchanges of Interstate 80.

Bloomsburg is served by the Greyhound and Continental Trailways bus lines. Commercial airports are located at Wilkes-Barre/Scranton on Interstate 81 and at Williamsport, which is about an hour's drive from Bloomsburg.

History

An academy "to teach youth the elements of a classical education" was established in Bloomsburg in 1839. In 1856, it was reorgnized as the Bloomsburg Literary Institute. A building now known as Carver Hall in memory of Henry Carver, principal at the time, was erected in 1867. It is considered today the university's landmark.

Bloomsburg Literary Institute became Bloomsburg Literary Institute and State Normal School in 1869; it continued under this name and organization until 1916 when it was purchased by the Commonwealth and named the Bloomsburg State Normal School.

The emphasis at the Normal School changed during the early 1920s from secondary and college-preparatory courses for special teachers to full-time teacher education. In May 1927, the institutional name was changed to Bloomsburg State Teachers College, authorized to grant a Bachelor of Science in Education for teachers in elementary and secondary schools.

In 1960, the school's name was changed to Bloomsburg State College. Authorization was received shortly thereafter to grant the bachelor of arts degree for liberal arts programs in humanities, social sciences, and natural sciences/mathematics. Graduate study, leading to the master of education degree, also was inaugurated. In 1968, approval was received for the master of arts degree, in 1970 for the master of science degree, in 1976 for the master of business administration, and in 1982 for the master of science in nursing. A cooperative doctoral program in elementary educaltion began in 1982.

Bloomsburg is a strong, multi-mission institution offering curricula in the liberal arts, business, nursing, allied health sciences, and teacher education. Degree programs are offered at the associate, baccalaureate, and master's level in addition to the cooperative doctoral program. Commonwealth legislation created the State System of Higher Education on July 1, 1983, and the institution became Bloomsburg University.

Accreditation

Bloomsburg University is accredited by the Commission on Higher Education of the Middle States Association of Colleges and Schools; The National Council for the Accreditation of Teacher Education; National League of Nursing; and the Pennsylvania State Board of Education. It is recognized by the American Chemical Society for the excellence of its chemistry department.

Library

The university library is named in honor of Dr. Harvey A. Andruss, president of the college from 1939 to 1969. More than 301,000 bound volumes and one million microtexts are housed in the facility. The building accommodates 400 readers and provides subscriptions to 1,382 periodicals. The 375-volume rare book collection also is housed in the library. The library also is equipped to provide literature searches using an online data base system.

Living accommodations

Residence halls are open to graduate students during summer terms. Requests for information concerning residence hall accommodations may be secured from the director of housing. Meals are available to graduate students in Scranton Commons. The Housing Office maintains a listing of off-campus housing available in the Bloomsburg community.



FEES AND REFUNDS

(Fees are subject to change without notice.)

Basic Fee

Residents of Pennsylvania--per semester hour--\$93 Out-of-state students--per semester hour--\$104

Late Registration Fee--\$10

Activities Fee (optional)

Summer term--six weeks session-\$12, three week session--\$6

Student Community Building Fee

1-4 semester hours--\$2.50, 5-8 semester hours--\$5, 9 or more semester hours--\$10

Student Health Service Fee

0-8 semester hours--no charge, 9 or more semester hours-\$20

Graduation and Diploma Fee

(Does not include rental fee for academic regalia)--\$10

50%

No Refund

Refunds

Refunds for basic fees will be based on the following schedule if applicable after the first full class day:
1st through 3rd wk. 4th wk. 5th wk. after 5th wk.
2nd week

80% 70% 60%

Financial Assistance

Graduate assistantships are available to students through the department in which the student wishes to study. These assistantships provide a waiver of tuition and a modest stipend. Contact the department of interest for information on graduate assistantships.

Some federal fellowships may be available in selected areas as well as assistance under the Pennsylvania Higher Education Assistance Agency Loan Program. Student work study funds also are available to graduate students. Information regarding these programs is available from the Office of Financial Aid.

Placement

Graduate students are eligible to use the services of the Career Development and Placement Center after they have been accepted as candidates for a master's degree.

Transcripts

Graduate transcripts must be requested through the Office of Graduate Studies either by letter or by completing the transcript request form available in the Office of Graduate Studies. All transcripts are \$2 per copy.

Note: The transcript process is being handled by the Registrar's Office. Please inquire as necessary as to where transcript requests are to be sent.

Auditing graduate courses

Individuals who complete the regular application procedure may choose to audit a graduate course for purposes of self improvement. No tests or class discussion are required for auditing a graduate course. However, the approval of the graduate dean is required. Also, full fee payment is required. (See section on Fees and Refunds.) Upon completion of the graduate course, a grade of "V" is recorded on the transcript.

ACADEMIC POLICIES

Student responsibility

It is the student's responsibility to satisfy the requirements for graduation in his or her curriculum and to observe the academic regulations of the Graduate School. Although the adviser and the staff of the Graduate School stand ready to aid the student in his or her decision making, the final responsibility rests with the student. Students with undergraduate deficiencies should consult their adviser early for advisement and special course approval.

Degrees

The Master of Education degree was established in 1960. Its programs are planned for teachers in service.

The first Master of Arts program (history) was established in 1968 and the first Master of Science program (biology) in 1971.

A program to lead to the professional degree Master of Business Administration (MBA) was instituted in 1976.

The purpose of programs for the professional degree, Master of Education, is to enhance the competence of teachers. The purpose of a Master of Arts program is to advance the student's scholarship in an academic discipline, and that of a Master of Science program is to develop mature scholarship and competence related primarily to application. Bloomsburg offers numerous programs of study leading to master's degrees.

Time limit

All requirements for a master's degree, including any courses accepted by transfer, must be completed within six calendar years. This period may be extended for sufficient reason. Written application for extension must be made to the dean of Graduate Studies with written approval of the student's adviser prior to the end of the six-year period.

Schedule of classes

Graduate classes taught in the regular academic year are usually scheduled in the late afternoons, evenings, and Saturdays in order to provide opportunity for teachers and individuals engaged in other full-time occupations to further their education. Graduate courses are offered in the summer sessions in regular daytime classes.

Students with undergraduate deficiencies are reminded that they are to consult their adviser concerning the undergraduate registration process.

Admission to graduate courses

Admission to graduate courses is granted upon the filing of a formal application for admission, submitting of credentials that certify a baccalaureate degree from an accredited college with a quality point average of 2.0 or higher (A=4), payment of a non-refundable application fee of \$15, and fulfill any additional requirements established by

the department offering the degree program.

Admission to graduate courses does not bind the university to admit the student to candidacy for a master's degree. The regulations governing admission to candidacy are listed in the section Admission to Candidacy for a Master's Degree.

A temporary permit to register for an off-campus course as an adjunct student without formal admission to graduate courses may be granted to a college graduate by the dean of Graduate Studies.

Categories of graduate students

An individual who has satisfied the requirements for admission to graduate courses is classified in one of five categories as follows:

CATEGORY (510)

Category 510 comprises students who do not express an intention to become canddiates for a master's degree in one of the programs for which a degree or certificate is authorized or who have been transferred to this category from other categories as listed below.

Students in Category 510 may apply for transfer to Category 530 or Category 540. Not more than 12 semester hours taken as a student in Category 510 may be applied toward a master's degree unless a special dispensation is granted by the dean of Graduate Studies.

A student may choose to remain indefinitely in Category 510 (for example, a student interested only in certification credit).

CATEGORY II (520)

This cateogry comprises graduate students who in their application for admission indicated an intention to pursue a master's degree program but whose undergraduate record shows a quality point average lower than 2.25. If a student in this category makes an average of 3.0 or higher in the first six to nine semester hours of graduate study at Bloomsburg University, he or she is eligible for transfer to Categories 530 or 540; otherwise, the student is transferred to Category 510 after nine semster hours have been completed.

CATEGORY III (530)

Category 530 comprises individuals other than those in Category 520 who indicated an intention to pursue an existing master's degree program and who have not yet been certified as clear of undergraduate deficiencies. Transfer to Category 540 is automatic when the adviser certifies to the graduate dean that there are no undergraduate deficiencies to be made up for the chosen program or when previously identified deficiencies have been successfully completed.

CATEGORY IV (540)

This category comprises graduate students who have no undergraduate deficiencies for the master's degree programs that they are pursuing. A student must be in Category 540

in order to be eligible to apply for admission to candidacy for a master's degree. A student in Category 540 who has not attained admission to candidacy after completing 12 semester hours of graduate work is transferred to Category 510 unless an extension of time has been granted by the dean of Graduate Studies. The request for extension of time must certify that the delay was the result of circumstances beyond the control of the student and must be endorsed by the student's adviser.

CATEGORY V (550)

This category comprises students who have been admitted to candidacy for a master's degree. An individual in Category 550 is transferred to Category 510 if his cumulative grade point average falls below 3.0 or if he has not completed his program within the time limit (see section on Time Limit.)

Advisement of graduate students

Graduate students in Categories 520, 530, 540, and 550 and in the Supervisory Certificate Program are assigned to advisers. The duties of the adviser of a graduate student are to serve as consultant in the planning of the student's program and in his or her choice of courses, to certify approval of the course as part of the student's degree program, to endorse the student's application for degree candidacy, and to arrange for a comprehensive examination if it is required by the program.

The adviser is appointed by the dean of Graduate Studies upon recommendation of the department of the proposed specialization.

An interview with the adviser is required prior to first registration for graduate courses and prior to each subsequent registration. Students with undergraduate deficiencies should consult with their adviser early for advisement and special course approval.

Students in Category 510 are not assigned to advisers. They submit their registration materials directly to the Office of the Dean of Graduate Studies. They may regard the dean of Graduate Studies as an adviser in case assistance is needed in choosing courses or in interpreting academic regulations.

Credit

Credit is measured in semester hours at the rate of one semester hour for 15 hours of lecture-discussion work plus final examination.

Semester hour load

During a period in which he or she is engaged in fulltime employment, an individual may enroll in a maximum of six semester hours in a given semester. Overloads are permitted only upon approval by the dean of Graduate Studies. Approval is given only in the most unusual circumstances,

The maximum load for a full-time student in a semester is 12 semester hours.

In terms other than regular semesters, the maximum is determined at the rate of one semester hour per week of fulltime course work.

The normal load of a graduate assistant on full stipend is six to nine semester hours; that of a graduate assistant on half stipend is nine to 12 semester hours. No overload is permitted.

Numbering of courses

Courses numbered 500 or higher are open only to graduate students. Courses numbered below 500 and listed in this bulletin are open also to advanced undergraduates. The number of credits in such courses that may be applied to a degree is limited to 12 semester hours. It is understood that graduate students enrolled in these courses will exhibit work of graduate calibre in their independent study and their papers.

Transfer of credit

A maximum of six semester hours in graduate courses taken in other approved colleges may be credited toward a master's degree. The transferred courses must have been taken in residence; they must cover content which is required in the student's program or recommended by the adviser for elective credit; they must have grades of B or higher. In case a course has been taken on a branch campus of a university, it will be construed as a residence course if full-time graduate students are accommodated to take a degree program on that campus. The student must request permission of the dean of the Graduate School with written approval of his or her adviser for transfer of credits into the graduate program. Pass/fail grades will not be accepted for transfer credit.

Registration

Students register for graduate courses through the Office of the Dean of Graduate Studies. Registration for undergraduate courses must be handled either through the Office of the Registrar or the Office of Extended Programs.

Attendance at classes

A student who is absent from a graduate class for a reason that can be verified as urgent is entitled to a reasonable amount of assistance from the professor in making up the work that was missed. This includes permission to make up an examination given the class during his or her absence and the late submitting of assignments that were due during the period of absence. It is the student's responsibility to provide the verification if requested when applying for the privilege of making up the work missed.

Withdrawals

A graduate student may withdraw from a course by applying to the dean of Graduate Studies. If withdrawal is requested prior to the date established by the registrar as the

midpoint of the semester, the grade in the course is W. If withdrawal is initiated later, the grade is W if the student is currently passing the course; otherwise, the grade is E.

The official date of withdrawal used in computing a grade and in determining a refund is the date of the latest class meeting prior to the filing of the withdrawal request in the Office of the dean of Graduate Studies.

Examinations

Arrange to take the standardized examination, if any, required by your department. This must be taken before you can be presented for candidacy. Graduate students are required to pay a fee for any testing required by their department. Payment for the Miller Analogies Test must be made to the university Business Office. Fees for other testings will be payable to the organization through which arrangements are made.

A comprehensive examination in the specialization may be set by the department as a degree requirement.

An examination in defense of a master's thesis is usually required of students who choose to write a thesis.

Master's thesis

If a master's thesis is included in the student's program, a committee is appointed by the dean of Graduate Studies from individuals nominated by the student's adviser. The committee is responsible for guiding the study, certifying approval of a written report both in form and content, arranging for the defense, certifying satisfactory completion of the thesis, and determining the grade.

Three bound copies of the thesis must be filed with the dean of Graduate Studies.

The student is responsible for following all of the thesis procedures specified in a special bulletin that may be obtained in the Graduate Office.

Where the requirements for a concentration for a master's degree include a departmental paper, such a paper is interpreted as one that grows out of a course and therefore does not require special registration nor carry its own credit. Completion of a departmental paper must be certified by the adviser as a part of the application for graduation.

Graduate courses in the senior year

A senior who is registering for the semester (or summer term) in which he or she will complete the requirements for a baccalaureate degree and who requires less than 15 semester hours (six semester hours in case of six week summer term or 12 semester hours in case of a two consecutive six week summer terms) may supplement the requisite undergraduate courses with graduate courses provided the total of undergraduate and graduate courses does not exceed the normal loads as stated herein.

The recommendation of the student's undergraduate adviser, including his or her certification that the undergraduate courses listed will complete the baccalaureate requirements, must accompany the application for admission to graduate courses. The student must pay the graduate application fee.

The graduate credit earned in this term is held in reserve until the baccalaureate degree has been completed.

Graduate assistantships

A limited number of graduate assistantships are available for full-time graduate students. Application is made to the department in which the service would be performed.

The maximum amount that may be earned by a graduate assistant in one year is \$4,235. Appointments are made either for this maximum sum or one-half of this sum. The graduate assistant on full stipend is responsible for 11 to 20 hours per week of service. The graduate assistant on half stipend is responsible for 5 to 10 hours per week of service.

Grades and averages

Grades given for graduate courses are:

A--Distinguished; scholarly work that exhibits independence and intellectual maturity (4 quality points)

B--Good (3 quality points)

C--Fair; acceptable toward a master's degree program within limits (2 quality points)

D--Not acceptable in a degree program (1 quality point)

E--Failing (0 quality points)

I--Incomplete; work must be completed within four months unless the period is extended by the dean of Graduate Studies for adequate reason. If the work is not made up, the grade is changed to N, and the student is denied further opportunity to complete the work.

RI--Removal of Incomplete grade

N--No grade, no credit

R--Research in Progress

W--Withdrawn with approval of the dean. The regulations governing the grade of W are described in the paragraph on withdrawal.

V--Audit

CR--Course repeated

The cumulative quality point average (QPA) is computed by the following process: (1) Multiply the number of quality points for each grade of A, B, C, D, or E in a graduate course taken at the university by the number of semester hours for the courses; (2) add these products; (3) divide by the sum of the semester hours for all grades that entered the computation. When a course has been repeated, only the last entry is used.

Repeating courses

No course may be repeated more than once (See section on Grades and Averages for effect on the quality point average.)

Academic standards

Each program that leads to a master's degree requires a minimum of 30 semester hours of graduate credit. Credit for courses with grades below C is not accepted toward the

requirements for the degree.

The student's cumulative quality point average at time of admission to candidacy and for graduation must be a 3.0 or higher.

Admission to candidacy for a master's degree

Admission to candidacy for a master's degree is subject to the following conditions:

- The student must be in Cateogry (540) (See section on Categories for Graduate Students.)
- Transcripts of all undergraduate and previous graduate study must be on file in the Office of the Dean of Graduate Studies.
- Arrange to take the standardized examination, if any, required by the department. This must be taken before being presented for candidacy.
 Effective with the 1986 fall semester, graduate students will be required to pay a fee for any testing required by their department. Payment for the Miller Analogies Test must be made to the university Business Office. Fees for other testings will be payable to the organization through which arrangements are made.
- The student must file an application for admission to candidacy with the dean of Graduate Studies after nine semester hours (or immediately after 12 semester hours) of the proposed program. Under certain circumstances, the dean may approve an extension of time. The application must be endorsed by the student's adviser; the endorsement presumes that the adviser has had adequate opportunity to formulate judgment about the student's ability and recommends candidacy.
- A student who is applying for candidacy for the Master of Education degree must have filed with the dean of Graduate Studies evidence of possession of a valid teaching certificate.

In case enrollment in a curriculum or in certain required courses thereof is restricted due to limited capacity, and a priority for admission has been established, the adviser may inform an advisee who is making satisfactory progress that endorsement of his application for admission to candidacy is being deferred until space can be assured. It is the responsibility of the student to inform the dean of Graduate Studies of the reason for the delay in filing the application.

The Master of Education degree

The Master of Education degree is offered in *biology*, elementary education, and reading.

Three courses in the School of Education are required for the degree:

60.501 MAJOR PHILOSOPHIES OF EDUCATION

3 semester hours

79.591 RESEARCH IN EDUCATION

3 semester hours

Elective course to be chosen with the approval of the program adviser.

In addition to the above basic courses, the candidate must complete a specialization of at least 21 semester hours for a minimum of 30 semester hours. The requirements for the specializations are stated in the appropriate sections on course descriptions.

The Master of Arts, Master of Business Administration, and Master of Science degrees

The Master of Arts degree is offered in art studio, art history, and communication.

The Master of Business Administration degree is offered in business administration.

The Master of Science degree is offered in biology, communication disorders (audiology, speech pathology, and education of the hearing impaired), early childhood education, special education (behavior disorders, learning disabilities, mental retardation, gifted/talented, exceptional persons), nursing, and instructional technology.

The requirements for each major are described in the corresponding department's section of course descriptions.

For admission to candidacy for the M.A., M.Ed., M.B.A., and M.S. degrees, see the section on Admission to Candidacy for a Master's Degree.)

Supervisory Certificate Program

The objectives of the Supervisory Certificate Program are related to the duties generally performed by first line supervisors, department chairpersons, coordinators, and directors of programs. The program is designed to develop supervisors who will be able to provide instructional leadership and work effectively with professionals and non-professionals in directing the activities of a given field (See supervisory section of this catalogue.) Programs leading to certification are offered in the following areas:

Supervisor Communication
Supervisor School Health
Services
Supervisor Early
Childhood
Supervisor Elementary
Education

Supervisor in Foreign Languages

Supervisor Mathematics

Supervisor Curriculum and Instruction Supervisor Science Supervisor Social Studies Supervisor in Special Education Supervisor Reading

Penn State University, in affiliation with Bloomsburg University, offers approved programs leading to Pennsylvania certification of vocational educators as supervisors of vocational education and as directors of vocational education. Courses in business education may be taken at Bloomsburg University through the Department of Business Education and Office Administration.

Master's degree equivalence certificate

The Commonwealth of Pennsylvania makes available a master's degree equivalence certificate (significant for salary purposes only) upon evidence that the applicant has completed graduate courses in accordance with requirements stated in a bulletin that may be secured from the Bureau of Teacher Certification in the Department of Education.

The university welcomes teachers who wish to use its resources to fulfill the course requirements for the certificate. No formal program is constructed for this purpose, and no responsibility is assumed by the university; however, students are invited to consult the dean of Graduate Studies when selecting courses for this purpose. Students who wish to take courses for this purpose are classified in Category 510.

Graduation

It is the responsibility of the student to apply for graduation not later than the final date stated in the official graduate calendar. A form to apply for graduation may be secured at the Graduate Office.

The dates for completion of thesis and department papers, comprehensive examinations, defense of thesis, payment of graduation fees (and binding fees if applicable) also are listed in the official graduate calendar. The dates provide minimum time necessary to compile graduation lists, order diplomas and academic regalia, and complete other necessary details.

A student who files an application for graduation after the specified date will be included in the first subsequent commencement; however, a student is eligible upon completion of all degree requirements to receive a letter certifying that the requirements for the degree have been completed and stating the date upon which the degree is to be formally conferred.

INTERDISCIPLINARY STUDIES

Interdisciplinary courses listed in this section are planned by more than one department. The courses are sometimes taught by teams of faculty members. The student should consult his or her adviser to determine the appropriateness of these courses for a particular degree program.

COURSES

(Code 09)

09.401 HISTORY AND POLITICS OF THE USSR

3 semester hours

This course seeks to give students sufficient background in history and political science to enable the student to better understand the USSR. It will provide them

with some of the major developments in the Soviet Union since 1917 in order to make contemporary affairs in that country more understandable. Combining lectures, films, slides, outside speakers, readings, and discussion, it will serve to give them sufficient background to more readily evaluate what they will experience while in the USSR.

09.427 SOCIALISM: THEORY AND HISTORY

3 semester hours

A survey of socialist philosophies from Biblical times to present concentrating on the theories of Marx, Engels, Lenin, and Mao and including review of the major historical events surrounding socialist development.

09.580-589 SPECIAL TOPICS

1-3 semester hours

Special Topics provides an opportunity for graduate students from any graduate program to expand their knowledge from a previously learned experience or to explore a new learning experience not offered on a regular basis. Each Special Topic course can carry from one to three semester hours. Prerequisites for each special topic will be determined by the instructor.

09.590 GRADUATE INTERNSHIP

1-6 semester hours

Provides a work-study experience jointly administered by an academic faculty member and a sponsoring employer. This course also provides the opportunity for an internship experience across disciplines at a graduate level.

09.599 THESIS 3-6 semester hours

COLLEGE OF ARTS AND SCIENCES

HUMANITIES

LANGUAGES AND CULTURES

COURSE DESCRIPTIONS

FRENCH (Code 10)

STUDIES ABROAD

3-6 semester hours

College-organized programs abroad.

GERMAN (Code 11)

11.597 STUDIES ABROAD

10.597

3-6 semester hours

College-organized programs abroad.

SPANISH (Code 12)

12.597 STUDIES ABROAD

3-6 semester hours

College-organized programs abroad.

ENGLISH

(Code 20)

COURSE DESCRIPTIONS

20.413 LANGUAGE IN AMERICAN SOCIETY

3 semester hours

Social, political, and philosophical perspectives on the historical development and current status of English and other languages in American society.

20.482 MILTON

3 semester hours

A comprehensive study of the poetry and prose of John Milton.

20.492 LITERARY CRITICISM

3 semester hours

An examination in depth of major critics from Aristotle to the present with emphasis on application of critical principles of primary genres-drama, novel, poetry and on independent study in varied areas of literature and aesthetics.

20.493 (503)

BIBLIOGRAPHY AND LITERARY RESEARCH

3 semester hours

History of literary scholarships, study of book production and practice in preparing specialized bibliographies and in planning scholarly projects.

20.494 RHETORIC OF LITERATURE

3 semester hours

Study of major rhetorical devices used by writers in the various literary genres.

20.500 MASTER'S RESEARCH PAPER

6 semester hours

An extensive and creditable scholarly paper on a topic to be determined by the student in conjunction with his or her adviser.

20.501 STRUCTURE OF ENGLISH

3 semester hours

A linguistic study of modern English and its varieties including phonology, morphology, lexicography, and syntax.

20.502 HISTORY OF THE ENGLISH LANGUAGE

A detailed survey and analysis of the major language changes from Anglo-Saxon to Modern English with attention to the history of the English-speaking peoples.

20.503 APPLIED ENGLISH LINGUISTICS

3 semester hours

Experimental, project-oriented course in application of modern linguistic theory to classroom situations.

Prerequisite: 20.501 or comparable graduate or undergraduate course in structural linguistics.

20.509 JOURNALISM FOR HIGH SCHOOL TEACHERS

3 semester hours

For high school teachers who offer courses in journalism or advise the school newspaper: staff recruiting; organization; gathering, writing, editing news; writing other journalistic forms; libel, censorship, freedom of press; business, lectures, workshops, field trips.

20.521 CONTEMPORARY SHORT STORY

3 semester hours

Main lines of development of the short story from the mid-19th century to the present. Attention is given to individual writers, especially major figures to analysis and evaluation of individual stories and to the characteristics of the genre.

20.522 MODERN DRAMA

3 semester hours

Main forces and movements in modern drama through selected dramatists from the time of Ibsen.

20.524 CONTEMPORARY NOVEL

3 semester hours

Writers and the trends of the novel in the modern era with emphasis on British and American works.

20.526 MODERN POETRY

3 semester hours

Reading of a comprehensive selection of modern poetry, British and American. Emphasis on appreciating the art of the poems, on recognizing the modern spirit in them, and on viewing them as part of a historical development of poetic tradition.

20.528 LITERATURE FOR THE ADOLESCENT

3 semester hours

Reading, study of books for the adolescent; consideration of literary qualities, evaluation criteria, human values in literature, approaches to literature, book selection, censorship, students' right to read.

20.531 SEMINAR 3 semester hours

For advanced students near graduation. Each student in seminar will pursue his or her own line of study under the guidance of the instructor and in an area of study determined by the student and his or her adviser. Notice of intention to register for seminar must be given the instructor of the course at least two months before the course begins.

20.532 MAJOR BRITISH AUTHORS

3 semester hours

Study of one or more major writers in English literature. Authors included vary with each presentation of the course.

20.533, 534, 535 STUDIES IN BRITISH LITERATURE

3 semester hours

Specialized areas of British literature such as literary forms, ideas, and movements. Content varies each time the course is offered.

20.542 EARLY ENGLISH DRAMA

3 semester hours

The growth of a native drama from the Middle Ages to the closing of the theaters in 1642; emphasis is on Shakespeare's contemporaries and Jacobean dramatists.

20.543 CHAUCER 3 semester hours

Major works with emphasis on the mind and art of Chaucer and considerable attention to the Middle English language. Medieval background and various specialized scholarly problems also are included.

20.547 ELIZABETHAN POETRY

3 semester hours

Elizabethan poetry, particularly the sonnet, lyric, and narrative of the 1590s, is examined for structure, origins, and influences. Students are encouraged to develop topics on the works of individual poets.

20.549 SHAKESPEARE

3 semester hours

A few selected plays are closely read. From this study are developed topics in biography and dating, textual history, sources, and contemporary and earlier intellectual influences.

20.556 RESTORATION AND LATER DRAMA

3 semester hours

Trends in comedy and tragedy from the reopening of the theaters in 1660 through the 1770s. Among the dramatists studied are Congreve, Dryden, Wycherley, Steele, Goldsmith, and Sheridan.

20.559 AGE OF JOHNSON

3 semester hours

Indepth study of such majors figures of the mid-18th century as James Boswell, Samuel Johnson, Oliver Goldsmith, Richard Savage, Samuel Richardson, Henry Fielding, Laurence Sterne, and Richard Brinsley Sheridan. Independent research is based on both such major literary personalities and minor authors of the period.

20.563 19TH CENTURY NOVEL

3 semester hours

Development of the novel is a major literary form of the Victorian age. A study of such major English novelists as Austen, Scott, the Brontes, Dickens, Thackeray, Trollope, Eliot, and Hardy. Supplementary readings are in other novelists of the period and in secondary source materials.

20.565 ENGLISH ROMANTIC POETS

3 semester hours

Important segments of the work of the major romantic poets to disclose the characteristics of the work and thought of each writer. Some attention given to background of the period and its literary forebearers and descendants.

20.569 VICTORIAN LITERATURE

3 semester hours

An indepth study of some aspect or combination of literary significance in the Victorian Age author(s), genre, specific works.

20.582 AMERICAN LITERATURE: EARLY 3 semester hours

Prose writers and poets of Colonial and Federalist America: Bradstreet, Taylor, Edwards, Franklin, Paine, Jefferson, Freneau, and Tyler. An intensive study of Puritanism and its role in the literature of this period.

20.583 AMERICAN LITERATURE: MIDDLE

3 semester hours

Major writers of the American Renaissance and other important romantic writers of the 19th century: Irving, Poe, Emerson, Thoreau, Hawthorne, Melville, Whitman, and Dickinson. Particular emphasis given to the role these writers played in interpreting the American experience.

20.584 AMERICAN LITERATURE: MODERN

3 semester hours

Since much of 20th century American literature achieves its greatest intensity in being critical of native, traditional values, the course examines such representative writers as Dreiser, Anderson, Lewis, Frost, Eliot, Hemingway, Fitzgerald, and Faulkner.

20.587 MAJOR AMERICAN AUTHORS 3 semester hours

Study of one or more major writers in American literature. Writers included vary with each presentation of the course.

COMMUNICATION (Code 23/25)

Master of Arts Degree in Communication

Entrance requirements:

- A bachelor's degree from a recognized college or university with a minimum overall QPA of 2.75 and a QPA of 3.00 on a 4.0 scale in the major.
- A minimum of 2-3 basic speech communication courses including, but not limited to, public speaking, interpersonal communication, survey of communication, persuasion, business communications, etc. Applicants without such preparation will be expected to enroll as auditors in 25.104 Interpersonal Communication and/or other course(s) as determined by the graduate committee.
- Three letters of recommendation from undergraduate professors or others who have the ability to comment on the applicant's potential to successfully complete a graduate program.
- The Graduate Record Exam (GRE) with a minimum score of 950 combined on the verbal and quantitative tests.
- A one-page statement describing the student's objectives, goals, and direction in enrolling in the program.
- Applicants who do not meet each of the requirements may request an interview with program graduate faculty to discuss special circumstances or may petition in writing for a waiver of entrance requirement(s).

Completion requirements:

- A minimum of 30 graduate credits must be earned.
- The following four core courses are required:
 - 23.501 Nature of Communication
 - 25.501 Introduction to Communication Research
 - 23.502 Interpersonal Communication
 - 23.445 Organizational Communication

- Beyond the core courses, students will select classes in keeping with their specific academic and career interests in consultation with the graduate adviser.
- At the conclusion of the semester in which students complete 24 semester hours of coursework, an application for comprehensive examination must be filed. The comprehensive is a six clock hour essay test that examines students' knowledge of philosophy, theory, and application of material covered in courses taken to that point but must include at least three of the four core courses.
- The comprehensive examination will be read and evaluated by at least three members of the graduate faculty.
- In the event of failure on the examination or any part thereof, the student will be given one opportunity to retake the part(s) failed.
- Students anticipating continued graduate work in a doctoral program are recommended to enroll in 23.598 Master's Research Project. This option would be taken in lieu of one three credit course not including core courses.

Retention requirements:

- Students must maintain a minimum of 3.00 GPA for all courses taken.
- A minimum grade of B must be earned in each of the four core courses. Students unable to meet this requirement may be given the opportunity to retake a course after a review of special circumstances by the graduate faculty committee.

Electives:

- A minimum of nine semester hours of courses offered by the Department of Communication Studies.
- A maximum of nine semester hours of courses offered in other departments as approved by the student's adviser.

COURSE DESCRIPTIONS

23.501 NATURE OF COMMUNICATION

3 semester hours

Primarily a theoretical survey of the major categories of the field of communication.

23.502 INTERPERSONAL COMMUNICATION

3 semester hours

A survey of the changing roles of laws, customs, and expectations as they relate to social interaction between people of one culture or of different cultures.

23.503 NON-PRINT MEDIA

3 semester hours

A survey of the history and theory of radio, television, and film. Theoretical emphasis combined with practical experience gained through field trips and media projects.

23.504 PRINT MEDIA

3 semester hours

An in-depth examination of publishing from the historical, theoretical, and other critical viewpoints.

23.598 MASTER'S RESEARCH PROJECT

3 semester hours

Independent research on a topic approved by the student's adviser(s).

PUBLIC ADDRESS

(Code 25)

25.445 ORGANIZATIONAL COMMUNICATION

3 semester hours

An explanation of the theoretical and practical aspects of how communication patterns develop in organizations.

25.501 INTRODUCTION TO COMMUNICATION RESEARCH

3 semester hours

An overview of the fields of research in communication and an examination of the contributions of professional speech communication organizations, graduate studies, and research. Historical, descriptive, experimental, and evaluating research studies are examined. A pilot thesis is required of each student to demonstrate competency in research techniques and the use of bibliographical resources.

25.502 RHETORICAL CRITICISM

3 semester hours

The nature of rhetorical criticism. The development of rhetorical theory from the Homeric period to the modern theorists. Methods of the critics during antiquity, the intermediate period (1600-1850), and methods of the modern critics.

25.503 HISTORY AND CRITICISM OF AMERICAN PUBLIC ADDRESS

3 semester hours

Evaluation and discussion of the development and application of rhetoric in America in terms of the speaker, speech, and times. American speakers selected from a cross-section in history prestudied from the viewpoints of biographical background nature, and extent of speaking, audience reaction, the speaker's basic ideas, his or her preparation, arrangement and style, basic philosophy, and platform behavior.

25.504 BRITISH ORATORY

3 semester hours

Burke, Fox, Sheridan, George, Bevan, Churchill, and other orators in the 17th through the 20th centuries. Analysis of style, philosophies, effectiveness, and their contribution to rhetoric theory.

25.505 ANCIENT RHETORIC

3 semester hours

The ancient rhetoricians Aristotle and Plato, Cicero, Longinus, and Quintilian. Emphasis is on the analysis and critical concepts of these men with a study of later interpretations of their works.

25.510 CURRENT PROBLEMS IN SPEECH ACTIVITIES

3 semester hours

Current speech practices in the secondary school. Methods of initiating, improving, and expanding speech programs.

25.515 ADVANCED PERSUASION AND PROPOGANDA

3 semester hours

Techniques of attitude modification through persuasion and propoganda. Practical application of the techniques by each student.

25.520 ADVANCED ORAL INTERPRETATION

3 semester hours

Understanding and appreciation of literature through developing skill in reading aloud. Selecting, adapting, and preparing material for presentation in high school classes.

Prerequisite: Consent of instructor

25.530 ADVANCED RADIO AND TELEVISION

3 semester hours

Practice and study of techniques of television announcing, writing (news and drama), directing, program planning, and performing. Instructional radio and television. Laboratory hours required.

Prerequisite: Beginning course in radio and television

25.585 SPECIAL TOPICS IN COMMUNICATION

3 semester hours

Specialized study by the class. The subject varies by semester.

25.586 SPECIAL TOPICS IN COMMUNICATION

3 semester hours

25.587 SPECIAL TOPICS IN COMMUNICATION

3 semester hours

25.590 MASTER'S RESEARCH PAPER

3 semester hours

MASS COMMUNICATION (Code 27)

27.511 TELEVISION PRODUCTION AND DESIGN

3 semester hours

Course focuses on the practical aspects of planning and producing video tapes for specific instructional purposes. Covers pre-production planning, production activities, and post-production editing.

ART

Master of Arts in Art Studio/Art History

Program description:

This Master of Arts in Art Studio degree program emphasizes the development of creative and scholarly competencies in one or more of the following studio areas: drawing, ceramics, crafts, graphics, painting, or sculpture with concurrent or parallel work in the areas of art history, the philosophy and psychology of art, art education, and visual aesthetics for a minimum of 30 credits.

The Master of Arts in Art History program is designed to provide an advanced knowledge base, writing proficiency, and research skills enabling the student to pursue a variety of professional options. A minimum of 30 credits is required including a thesis based on the student's area of interest. In conjunction with the student's committee an individualized program of study will be designed. Opportunities for interdisciplinary and off-campus experience are available.

Admission Requirements:

Students may apply under either of two admission plans. Students applying for admission under Plan I must have earned a baccalaureate degree in art (a B.A., B.F.A., or B.S. degree in art education) from an accredited institution of higher education.

Students applying for admission under Plan II who have not graduated with a curriculum in art must meet not only the general graduate school requirements for admission but also the requirements established by the Department of Art.

Initial admission materials must include official transcripts of grades, an 8 x 10 inch plastic sleeve of slides representative of one's creative work for art studio majors and a one-page statement of one's objectives and philosophy. Upon acceptance, students are required to appear for a personal interview with the department chairperson and an adviser to be assigned in their major field. At this time, any deficiencies will be noted and a course of study planned. A thesis and exhibition of creative work also are required as part of the program of study for art studio majors.

Course offerings:

The Master of Arts program is consistent with the Art Department's present philosophical goals and will be a continuation of the present undergraduate level program.

The unique multi-level studio offerings, which allow students of different degrees of experience (different levels of discipline) to work within one studio, provides a natural structure for further advanced-level work.

The goals of the curriculum are to develop the full potential of each candidate through a personalized program of study which will emphasize the communicative power of the individual's personal, mature, and unified statement through research and one's works of art.

The faculty of artist-teachers, each of whom are specialists in their respective disciplines, will provide the variety of approaches and instruction needed in each area of concentration.

Concentration of advanced study in six graduate studio areas:

32.500, 01, 02, 03 Advanced Ceramics I, II, III, IV 32.510, 11, 12, 13 Advanced Drawing I, II, III, IV 32.520, 21, 22, 23 Advanced Craft I, II, III, IV 32.530 31, 32, 33 Advanced Graphics I, II, III, IV 32.540, 41, 42, 43 Advanced Painting I, II, III, IV 32.550, 51, 52, 53 Advanced Sculpture I, II, III, IV 32.593 Advanced Independent Study in the Studio Arts Graduate art history courses

- 31.560 Readings and Research in Contemporary Art History
- 31.565 Readings and Research in American Art History
- 31.570 Readings and Research in Early European Art History
- 31.571 Readings and Research in Later European Art History
- 31,575 Readings and Research in Oriental Art History
- 31.580 Readings and Research in Architectural Art History
- 31.585 Art and Culture of France
- 31.592 Readings and Research in Advanced Visual Aesthetics
- 31.595 Directed Study in Art History
- 30.590 Current Theories in Art and Art Education
- 30.591 Visual Arts for the Exceptional Child
- 30.595 Thesis

All the above courses are three semester hours each with the exception of independent study, which carries variable credit and thesis with 3-6 credits.

Art gallery, permanent art collection, slide collection

The department operates the Haas Gallery of Art, which features monthly exhibitions of varied art forms. A special exhibition of student art work is held annually, and an exhibition organized and planned by students in the art gallery course is held in the spring of each year. In addition, an art student intern maintains a small art gallery space in the Presidents' Lounge of the student union.

The Department of Art maintains an extensive permanent art collection of more than 300 pieces with works displayed throughout the campus. In the seminar room, a student slide curator assists in classifying, cataloging, and filing over 40,000 units contained in the department's 35mm slide collection.

COURSE DESCRIPTIONS

GENERAL AND ART EDUCATION (Code 30)

CURRENT THEORIES OF ART AND 30.590 ART EDUCATION

3 semester hours

This course will focus on current theories of art and art education practiced in American schools with an emphasis on eventual application. A research paper or research project will be required.

30.591 ADVANCED VISUAL ARTS FOR **EXCEPTIONAL CHILDREN**

3 semester hours

The importance of art activity as a means of enriching and stimulating a special child's awareness of himself and his world is stressed. Emphasis is placed on those positive aspects for creative activity which the handicapped child possesses.

30.595 **THESIS** 3-6 semester hours

ART HISTORY (Code 31)

READINGS AND RESEARCH IN 31.560 **CONTEMPORARY ART HISTORY**

3 semester hours

A detailed study of contemporary movements in art from the late 19th century to the present with readings and research for advanced students.

31.565 READINGS AND RESEARCH IN AMERICAN ART HISTORY

3 semester hours

Advanced study of the history of visual art in America.

31.570 READINGS AND RESEARCH IN EARLY EUROPEAN ART HISTORY

3 semester hours

The research focus for this course will be on specific topics relating to the periods from Pre-Historic to the gothic.

31.571 READINGS AND RESEARCH IN LATER EUROPEAN ART HISTORY

3 semester hours

The period from the early Renaissance through French Impressionism provides the thrust for this course.

READINGS AND RESEARCH IN 31.575 ORIENTAL ART HISTORY

3 semester hours

This course is intended to be an advanced survey of Oriental Art in the broadest sense of the word: the art and architecture of the ancient Near East, Japan, China, and India. An introduction to both monuments and cultural ideas, the course exposes the advanced student to basic problems in chronology, style, and research methodology.

READINGS AND RESEARCH IN 31.580 ARCHITECTURAL ART HISTORY

3 semester hours

An advanced survey of the evolution of architecture in the western world from the Pharaonic Egyptian period through the contemporary 20th century. Typical and outstanding examples of each period studied will be discussed and researched by the general student. Imperative to an understanding of the physical structures studied will be an analysis of the type of society and the rationale for the creation of such an architecture.

ART AND CULTURE OF FRANCE 31.585

3 semester hours

A study-tour of France with specific attention to French Art seen in relation to its social and cultural environment. Visits will be made to places of artistic and cultural interest in and around Paris and specific areas of France where the emphasis is for the particular course of study. This course also will be offered under Extended Programs for advanced students and members of the community.

31.592 READINGS AND RESEARCH IN ADVANCED VISUAL AESTHETICS

3 semester hours

Advanced study of images and viable aesthetic positions in the plastic arts emphasizing artistic and perceptual awareness and concern with environmental relationships.

DIRECTED STUDY IN ART 31.595 **HISTORY**

3 or 6 semester hours

The advanced study of a topic in the area of art history. Following an intensive review of the scholarly literature in the field, a paper, meeting contemporary standards of publication in the field, will be required under the direction of a faculty adviser.

ART STUDIO

(Code 32)

32,500 ADVANCED CERAMICS I

3 semester hours

The student will define in writing his present level of knowledge and competency. From this information, he or she can then prepare a plan of study that will allow for a direction of work. The student will be responsible for making and firing his or her own work.

32.501 ADVANCED CERAMICS II

3 semester hours

At this level, the student will intensify his or her study by selecting a specialized problem relating to the experiences gained in Advanced Ceramics I.

32.502 ADVANCED CERAMICS III

3 semester hours

The student will continue to pursue an advanced and refined level of study in the discipline of creating an art object. A specialized problem relating to the experiences gained in the first two levels will facilitate a continuity in learning.

32.503 ADVANCED CERAMICS IV

3 semester hours

At this level, the student's work should reflect a professional and philosophical attitude. The student will be required to have an exhibition of his or her work.

32,510 ADVANCED DRAWING I

3 semester hours

An exploration of advanced drawing techniques and involvement of personal expression and imagery required.

32.511 ADVANCED DRAWING II

3 semester hours

Emphasis will be on the development of individual themes and projects.

32.512 ADVANCED DRAWING III

3 semester hours

Focus on personal expression and imagery for potential thesis statement--self-direction and innovation.

32.513 ADVANCED DRAWING IV

3 semester hours

Concentration and production of drawings for a unified thesis statement.

32.520 ADVANCED CRAFTS I

3 semester hours

Advanced levels of experimentation with contemporary idioms in crafts design. Emphasis on highly professional concepts of form and methods and on an investigation and a refinement of techniques as a means of realizing significant visual statements in crafts. Individualized instruction and independent planning for each student for all four levels.

32.521 ADVANCED CRAFTS II

3 semester hours

Individual concentration on specific media and related techniques. Intense involvement with refined design schemes, systems, and variations that are oriented toward an increasingly more defined singular direction in crafts.

32.522 ADVANCED CRAFTS III

3 semester hours

Highly independent and mature involvement with advanced concepts, methods, and processes in a specific crafts direction. At this level, students begin to develop a thesis presentation which emerges from studio experiences, independent research, and from a wide highly selective exposure to craft objects in museums, galleries, and private studios.

32.523 ADVANCED CRAFTS IV

3 semester hours

A continued involvement with advanced concepts in crafts. Concentration on completing final works for a one-man or a one-woman show. A definitive position paper reflecting a personal philosophy in crafts is developed.

32.530 ADVANCED GRAPHICS I

3 semester hours

Advanced level exploration of traditional and/or experimental printmaking methods. Emphasis on personalized imagery and technical proficiency.

32.531 ADVANCED GRAPHICS II

3 semester hours

Exploration of advanced level printmaking including color and color registration procedures.

32.532 ADVANCED GRAPHICS III

3 semester hours

Focus on personalized forms for potential thesis statement. (Students are expected to be innovative and proficient in the technology of printmaking.)

32.533 ADVANCED GRAPHICS IV

3 semester hours

Concentration on the selected forms for a unified thesis statement.

32.540 ADVANCED PAINTING I

3 semester hours

Search into purpose of painting with specific attention to traditional methods-- glazing, egg tempera, and underpainting.

32.541 ADVANCED PAINTING II

3 semester hours

Exploration into different approaches of painting for individual expression. Achieving in representational painting.

32.542 ADVANCED PAINTING III

3 semester hours

Continued development into maturity of individual style--special emphasis on mural painting designed into architectural space.

32.543 ADVANCED PAINTING IV

3 semester hours

Mature fulfillment of personal expression. Painting should reflect continuity of intent and style. A selection of work will be prepared for exhibition and thesis.

32.550 ADVANCED SCULPTURE I

3 semester hours

The student will define in writing his present level of knowledge and philosophical direction. From this information, he or she will then prepare a plan of study that will allow for a direction of work. The student will be responsible for the completion of show quality pieces during the course.

32.551 ADVANCED SCULPTURE II

3 semester hours

The student will continue to experiment while still being concerned with the concept form. At this level, more positive philosophical ideas should begin to grow and be developed.

32.552 ADVANCED SCULPTURE III

3 semester hours

At this level, the student's work should reflect a significant transition from experimentations to a more definite direction in technique and aesthetic opinion.

32.553 ADVANCED SCULPTURE IV

3 semester hours

The student will continue to produce highly professional pieces of art while maintaining an awareness of his or her responsibility to society. This responsibility will be fulfilled by an exhibition of the student's work for his or her thesis.

32.580 ADVANCED PHOTOGRAPHY I

3 semester hours

The course will develop historical foundations, technicals skills, and the creative conceptual component of photography as art.

ADVANCED PHOTOGRAPHY II	
3 semester hours	
ADVANCED PHOTOGRAPHY III	
3 semester hours	
ADVANCED PHOTOGRAPHY IV	
3 semester hours	

32.595 DIRECTED STUDY IN STUDIO ART 3 or 6 semester hours

Continued development of a student's involvement in one of the selected studio areas following the satisfactory completion of four levels of advanced study in that areas. Permission of the instructor and department chairperson is required.

SOCIAL STUDIES

COURSE DESCRIPTIONS

ECONOMICS (Code 40)

40.513 ORIGIN AND DEVELOPMENT OF CAPITALISM

3 semester hours

Transition from feudalism to capitalism and the subsequent influence of leading capitalist institutions on industry, agriculture, commerce, banking, and the social movement.

40.514 LABOR ECONOMIC THEORY

3 semester hours

The emphasis of the course is on labor economic theory and its application in analyzing the issues of employment and inflation. Topics discussed include growth of the labor force and its composition, wage theories and wage structures, trade unionism and income distribution, economics of poverty and minimum wage and hour laws, and civil legislation. Occupational choices, job search, labor mobility, and human capital formation are included. Students are exposed to research and methodology to meet the research requirements of the course.

40.515 PUBLIC POLICY AND BUSINESS

3 semester hours

Public policies affecting the economy: historical, philosophical, and legal basis of regulation; the rationale of free enterprise. Intensive analysis of selected areas of economic policy related to government action.

40.531 CURRENT ECONOMIC PROBLEMS

3 semester hours

Selected economic problems of current interest and concern to our society. Basic economic principles and theories and the thinking of recognized economists of the past and present as revealed in their published works.

40.532 COMPARATIVE ECONOMIC SYSTEMS

3 semester hours

A comparison of the workings and performance of the major forms of economic organization. The capitalist systems; the modern welfare states; state capitalism; communism; and socialism.

40.533 INTERNATIONAL ECONOMIC POLICIES AND RELATIONS

3 semester hours

Application of modern international economic and financial anlayses to emerging contemporary problems of nations trading with one another. Selected topics include customs unions; optimum currency area; international cartels; and flexible exchange rates. Impact of governmental and intergovernmental relations and regulations.

EARTH SCIENCE (Code 51)

51.451 FIELD TECHNIQUES IN EARTH AND SPACE SCIENCE

6 semester hours

Intensive field and laboratory training in the use of equipment and techniques in the areas of geology, hydrology, and cartography. Field trips are integral and vital segments of the course.

51.453 OPERATION AND PROGRAMMING OF THE PLANETARIUM

3 semester hours

Methods in use of the planetarium as a teaching and motivational device, supervised training, and practice in the operation, use and maintenance of planetarium equipment.

POLITICAL SCIENCE (Code 44)

44.405 THE DEVELOPMENT OF POLITICAL THOUGHT

3 semester hours

A chronological survey from the ancient Greeks to the present is undertaken to present the ideas of seminal political thinkers as they grappled with perennial problems.

(Offered fall of odd-numbered years.)

44.409 AMERICAN POLITICAL THOUGHT 3 semester hours

Analyzes the relationship of American political thought to contemporary political science by using traditional materials in an historical, chronological way but reworking them to show their relation and relevance to actions and institutions. Included are the main ideas of the leading political thinkers in America from the Colonial period to the present.

(Offered fall of even-numbered years.)

44.429 RACISM AND SEXISM IN AMERICAN POLITICS

3 semester hours

An analysis of the role of Blacks in American politics, the Black Power movement, civil rights, and racial conflict.

44.437 PUBLIC ADMINISTRATION APPLICATIONS

3 semester hours

This course operationalizes the theory of public administration by using simulations and cases. (Offered spring only.)

44.438 CIVIL SERVICE EMPLOYMENT POLICIES AND PRACTICES

3 semester hours

Public service as a career, the personnel needs of national and local governments, civil service law, personnel systems, and current problems.

44.440 THE PRESIDENT AND CONGRESS

3 semester hours

Reviews presidential and congressional politics, public policy-making roles, executive-legislative relationships, constitutional issues. Examines problem areas and proposals for reform.

(Offered fall only.)

44.446 CONSTITUTIONAL LAW I

3 semester hours

Analysis of the evolution, structure, and function of the Supreme Court, concentrating on a case study approach of the court's interpretations of the powers of the president, Congress, and federal-state relationships.

(Offered fall only.)

44.447 CONSTITUTIONAL LAW II

3 semester hours

Studies the decisions of the Supreme Court as they are related to the individual and the government, concentrating on nationalization of the Bill of Rights; rights of persons accused of crimes, equal protection, and voting rights.

(Offered spring only.)

44.448 JUDICIAL PROCESS

3 semester hours

Studies policy making by the federal courts, primarily the Supreme Court. The nature of the policy-making function as well as the impact of policy making on American society also are analyzed.

44.452 STATE AND LOCAL GOVERNMENT AND POLITICS

3 semester hours

Presents a description and analysis of state and local legislatures, executives, and judiciaries; the myths and realities of state and local politics; intergovernmental relations; current policies and problems.

(Offered spring only.)

44.458 U.S. FOREIGN POLICY

3 semester hours

Analyzes the substance, methods, and purposes of U.S. foreign policy including the determinants of policy, policy making machinery, and implementation matters.

44.463 THE U.S.S.R. POLITICAL SYSTEM

3 semester hours

Studies the history, development, ideology, structure, process, institutions, and policies of the Soviet Political System.

44.464 GOVERNMENT AND POLITICS OF IRELAND I

3 semester hours

Presents a survey of historic, social, cultural and religious developments in Ireland with concentration on a study of the government and politics of Northern Ireland and the Irish Republic. Examines contemporary literature, drama, music, and art.

44.487 INTERNATIONAL LAW AND ORGANIZATIONS

3 semester hours

Presents the theoretical and practical implications of the legal and organizational efforts to regulate international relations with emphasis on international law, the United Nations, the International Court of Justice, and regional and functional organizations.

44.490 INDEPENDENT STUDY IN POLITICAL SCIENCE

3 semester hours

Provides for individualized reading, research, and reporting under conditions of minimal supervision. Projects must have departmental approval and be underway by the end of the first week of a session.

44.491 READINGS IN GOVERNMENT AND POLITICS

3 semester hours

Topics are selected on the basis of close consultation between instructor and student. Designed for either group or individual study.

44.492 SEMINAR IN GOVERNMENT AND POLITICS

3 semester hours

Examines selected problems in government and politics in an attempt of review and unify theories and methods of political science. Emphasizes individualized research projects.

44.496 FIELD EXPERIENCE IN POLITICAL SCIENCE

1-6 semester hours

Provides for supervised individual or group activities including internships of a non-classroom variety in applied areas of political science.

SOCIOLOGY (Code 45)

45.441 SOCIAL INDICATIONS

3 semester hours

This course is designed to reinforce and extend earlier learning in research techniques and methods by focusing upon systematic step-by-step understanding, analysis, and preparation of social indicators at the federal, state, and local levels of social policy planning and analysis. The emphasis is on developing student understanding of social indicators and their use in social planning within all levels of society.

Prerequisite: 45.211, 316, 460, or equivalent

45.443 SOCIOLOGY OF DEVIANT BEHAVIOR

3 semester hours

This course evaluates the presence and function of deviance in society, its various types including mental illness and various types of crime and stigmatized behavior and how it is handled therapeutically and legally: institutionalization and treatment. It attempts to provide a broad theoretical perspective as well as concrete examples of deviance in any society. The last third specifically examines current methods of rehabilitation and punishment.

45.450 SOCIAL WORK PROCESSES II

3 semester hours

An analysis and application of concepts from communication, information, and systems theory to social work practice.

45.451 FAMILY COUNSELING

3 semester hours

This course surveys the major theoretical models for family assessment and intervention. Emphasis is placed on the problem involved in researching the changing social composition of rural-urban communities.

Prerequisite: 45.211

45.453 SOCIAL WELFARE POLICY

3 semester hours

45.465 ADVANCED METHODS OF RURAL URBAN ANALYSIS

3 semester hours

Probability theory, sampling, and statistical inference applicable to rural-urban area anlaysis. Emphasis is placed on the probleminvolved in researching the changing social composition of rural-urban communities. Prerequisite: 45.211

45.467 POPULATION STUDY

3 semester hours

A study of human population, its major theories, distributions, composition, and other characteristics, changes, and future developments of population; impacts of population problems on society as influenced by vital processes and migration patterns.

Prerequisite: 45.211

45.468 SOCIAL SERVICE PLANNING

3 semester hours

An advanced consideration of the social context of the theories and applications as well as the social effects of social planning, social policy, and social services systems on people in service-based, post-industrial socities at all levels of government.

45.474 CONTEMPORARY ENVIRONMENTAL ISSUES

3 semester hours

Some major human problems that lead to environmental deterioration, particularly water, air and noise pollution, energy, and other resource depletion as well as increasing population density.

Prerequisite: 45.211

45.490 SOCIOLOGY OF AGING

3 semester hours

A study of aging, its major theoretical themes, patterns of living, socio-psychological, and cultural consequences of aging. Further, the course examines the contemporary issues, problems, and programs of the aging.

Prerequistie: 45.211

45.500 SOCIOLOGY OF MASS COMMUNICATION

3 semester hours

This course is an in-depth discussion of the cognitive and behavioral effects of mass media, especially television content on audiences, the social structure of communications industry, particularly its influence on production, programming, news content, "newsworthiness" and "media events," and the use of mass media by the U.S. at home and abroad. Students will critique the latest research articles in the field.

45.511 SOCIAL INSTITUTIONS

3 semester hours

Sociological examination of major institutions in the U.S. cross-culturally compared with those in other societies. Specific institutions will be selected depending on the interest of the students and faculty.

45.513 ADOLESCENTS IN AMERICAN SOCIETY

3 semester hours

Study of the role of adolescents in contemporary U.S. society with special emphasis on the adolescent's social interactions in groups and institutions.

45.523 THE CONTEMPORARY AMERICAN **COMMUNITY**

3 semester hours

An advanced examination of the social dynamics of community life, its institutions, organizations, and people within the context of the development of post-industrial society.

45.525 **CURRENT SOCIAL ISSUES**

3 semester hours

Analysis of current social issues and solutions offered to solve them. Issues and solutions are explored within the broad framework of the social sciences and specific

framework of sociological and anthropological data.

ANTHROPLOGY (Code 46)

46,440 LANGUAGE & CULTURE

3 semester hours

A study of the place of oral or non-oral language in human evolution and contemporary cultures. Topics discussed include dialectal variation, discourse analysis, multilingualism, language, and cognition and the role of language in education.

CULTURE AND ECOLOGY OF 46.450 **SOUTH AMERICA**

3 semester hours

A survey introduction to the aboriginal, non-literate cultures of South America including the ecological background, archaeology, and cultural patterns.

HISTORY OF ANTHROPOLOGICAL 46,470 THOUGHT AND THEORY

3 semester hours

This course surveys intensively the leading methods and theories of anthropological and ethnological interpretation with special emphasis on the concept of culture and its practical application to modern problems.

PSYCHOLOGY (Code 48)

48.525 INDIVIDUAL INTELLIGENCE **TESTING**

3 semester hours

Analyzes the nature and rationale of various individual tests of intelligence. Provides skills and methods in administering tests and in scoring, interpreting, and reporting results.

THEORIES OF HUMAN LEARNING 48.576 3 semester hours

Studies the historical and contemporary learning

systems and models which yield principles for practical application.

Note: The following senior level undergraduate courses also are open to graduate students.

48,406 PSYCHOLOGY SEMINAR

3 semester hours

Provides for an advanced consideration of significant topics in psychology. Requires reports and discussion of current research. Course may be repeated with change in topic. Prerequisite: 21 hours in psychology and consent of instructor.

48,436 THEORIES OF PERSONALITY

3 semester hours

Provides a critical study of theories explaining development, structure, and organization of personality. Considers personality from psychoanalytic, social, individual, self, and learning points of view. Prerequisite: 48.101

48,451 LABORATORY TRAINING IN GROUP PROCESSES

3 semester hours

Offers on-going experience on topics including normsetting, leadership, problem solving, role playing cooperation/competition and decision making. Prerequisite: 48.101 and consent of instructor (Offered spring only.)

48,453 ORGANIZATIONAL PSYCHOLOGY

3 semester hours

Describes the application of psychological theory and research to the study of industrial, business, profit, and nonprofit service, military and governmental organizations. Emphasizes the interaction of individual perceptions, group dynamics, and organizational climate and strategies to maximize the satisfaction and effectiveness of each component within and between complex organizations. Prerequisite: 48.101, 251, and junior standing

48,464 ADVANCED EXPERIMENTAL DESIGN

3 semester hours

Presents an advanced consideration of the planning, conduct, and evaluation of research in the behavioral and biological sciences, employing parametric and nonparametric statistics. Emphasizes inferential statistics, design, analysis, interpretation, and computer utilization. Prerequisites: 48.101, 160, 281, 282, or consent of instructor

INDEPENDENT STUDY IN 48.466 **PSYCHOLOGY**

3 semester hours

Provides for the study of a topic via either review and research of technical psychological literature or empirical manipulation of variables in the field or laboratory under supervision of a psychology faculty member resulting in a written report of its outcome. Prerequisite: consent of instructor and departmental approval.

48,497 PSYCHOLOGY PRACTICUM 3-15 semester hours

Provides application of psychological knowledge through study color, observation, and practice in a community, college, or business setting. May be repeated for a total of 15 semester hours. By consent of instructor.

SCIENCES AND MATHEMATICS

BIOLOGY (Code 50)

Master of Science Degree in Biology (Thesis Optional)

Purpose: This program is intended to prepare the student either for admission to a research-oriented doctoral degree program in biology or employment in a biology or health-oriented profession.

Prerequisite: An undergraduate degree in biology or its equivalent. Undergraduate deficiencies must be made up

without credit toward the master's degree.

Requirements: Thesis option--30 semester hours, 18 semester hours including thesis must be in courses numbered 500 or above. A limited number of courses in other areas may be included on approval of the department if they are clearly supportive of the biology major. A six credit thesis (50.593) also is required.

Requirements: Non-thesis option--30 semester hours, 18 of which must be in courses numbered 500 or above. A non-credit research paper and a written comprehensive examination covering the student's graduate course work also are required. A limited number of courses in other areas may be included on approval of the department if they are clearly supportive of the biology major.

Examinations: A seminar presentation of the thesis or required paper (non-thesis option) and its results must be given during the term in which the degree is to be granted; a written and/or oral comprehensive examination administered by a committee from the department is part of the non-thesis option.

Foreign Language: Proficiency in a foreign language is strongly recommended.

Master of Education Degree in Biology

Purpose: This specialization is intended to enhance the competence of secondary school teachers of biology by extending their scholarship in content and method through formal courses and independent study and research.

Prerequisite: An undergraduate major in biology with

Level I certification; background in mathematics and chemistry adequate for the courses and research to be undertaken. Undergraduate deficiencies must be made up without credit toward the degree prior to departmental recommendation for candidacy.

Required: Biology 50.591 or 592 to fulfill the research requirement. Also, 60.501 and 591.

Elective: Courses are to be chosen with the adviser's approval. 65.566 is an acceptable elective. A minimum of 18 semester hours must be in courses numbered 500 or above.

Examination: A seminar presentation of the thesis or directed study and its results; a written and/or comprehensive examination also may be required.

Application to the program: Application materials are available through the Graduate Office located in the

Waller Administration Building. The applicant for both the M.S. and the M.Ed. degree also is requested to submit GRE scores including the advanced scores in the biological sciences.

The Biological and Allied Health Sciences Department encourages students to also apply for graduate assistantships for both the academic year and the summer. Contact the Graduate Committee chairperson of the Biological and Allies Health Sciences Department for application information.

COURSE DESCRIPTIONS

50.411 RADIATION BIOLOGY

3 semester hours

Studies effects of radiation on living organisms; nuclear structure fundamental properties of radiation; physical, chemical, and organisms; application of radio-chemicals in biological studies. Minimum of four hours per week including laboratory.

Prerequisite: 50.232, 233, 53.141, or consent of instructor

50.431 EVOLUTION 3 semester hours

Studies the major concerns of the theory of evolution and contributions toward their solutions made by genetics, palentology, systematics, and ecology. Three hours per week lecture.

Prerequisite: 50.110 or 120; 50.332 recommended

50.441 CYTOLOGY AND CYTOGENETICS 3 semester hours

Studies the structure and function of cytoplasmic and nuclear organelles of cells. Laboratory studies include techniques for cell, chromosome, and tissue preparation. Two hours lecture, 2 hours laboratory per week.

Prerequisite: 50.332 or 233, 52.211 or 231 or consent of instructor

50.454 ETHOLOGY 3 semester hours

Presents a description and classification of animal behavior, its evolution, and biological function. Emphasizes mechanisms underlying behavior especially species-typical behavior. Three hours lecture, 2 hours laboratory per week.

Prerequisite: 50.110 and 371 or consent of instructor

50.455 ENVIRONMENTAL MICRO-BIOLOGY

3 semester hours

Provides a practical application of knowledge of microorganisms; their effects on our environment; methods of control; sanitation regulations and testing procedures. Field trips taken when practical. One hour lecture, four hours lab per week. Prerequisite 50.341 or consent of instructor

50.457 ENTOMOLOGY 3 semester hours

Studies the physiology, morphology, behavior, classification, and general biology of the insects. A collecting period will provide an opportunity for students to collect, mount, and properly display insects for study.

Taxonomic emphasis limited to order and family. Equivalent to five hours per week including laboratory. Prerequisite: 50.110 or consent of instructor

50.459 ORNITHOLOGY 3 semester hours

General biology of birds and the study of bird identification in the field of song and sight. Studies birds of this region in relation to migration, time of arrival, and nesting. Two hours lecture, 3 hours laboratory per week. Some study off campus may be required.

Prerequisite: 50.110 or consent of instructor

50.462 PLANT ANATOMY

3 semester hours

Outlines recent concepts of plant anatomy and historical consideration of classical researchers. Reviews structure, function, growth, and morphogenesis of the vascular plants. Addresses composition and growth of meristems and the phenomena of subsequent tissue differentiation to increase appreciation of development events. Describes anatomical organization by developmental and comparative methods in order to explain important cell, tissue, and organ relationships. Two hours lecture, 3 hours laboratory per week.

Prerequisite: 50.120

50.463 BIOLOGICAL PHOTOGRAPHIC TECHNIQUES

3 semester hours

Presents theory and practice of photography as applied to biology including negative and print making, gross specimen photography, copying, transparencies, filmstrips, autoradiography, nature work in closeups, photomicrography, thesis illustrations, and other special techniques. Two hours lecture, 3 hours laboratory per week. Additional laboratory hours may be required.

50.471 MEDICAL PARASITOLOGY

3 semester hours

Presents the life history, physiology, taxonomy, and morphology of parasites of medical importance to man. Special attention given to clinical aspects such as pathology, symptomology, diagnosis, prevention, and treatment. Laboratory work stresses identification of parasitic disease through living and preserved material, the proper handling of specimens, and methods of professional patient interviewing.

Prerequisite: 50.110 and 52.101 or 111

50.472 CELL PHYSIOLOGY

3 semester hours

Applies physical and chemical principles to cellular processes, biochemistry of cellular constituents, physiochemical environment; bio-energetics, intermediate metabolism. Three hours lecture/discussion per week.

Prerequisite: 12 hours of biology/chemistry 52.211 or 231 or consent of instructor

50.481-489 A

ADVANCED SPECIAL TOPICS, BIOLOGY/ALLIED HEALTH SCIENCES

3 semester hours

Presents an area of biology or allied health. Three hours of credit may be applied to the biology major, which requires the student have some background in biology.

Prerequisite: determined by instructor

50.511 SYSTEMATIC ZOOLOGY

3 semester hours

Study of the diversity of the animal world and the methods and principles used to examine this diversity. Five hours per week including laboratory.

50.521 SYSTEMATIC BOTANY

3 semester hours

Morphology, taxonomy, and geographical distribution of vascular plants. Five hours per week including laboratory.

50.531 DEVELOPMENTAL BIOLOGY

3 semester hours

Study of progressive changes or transformations that occur during the existence of various plants and animals. Morphogenesis, differentiation, metabolism, and genetics control are considered. Experimental studies in the laboratory utilize living material obtained from local region and living cells grown in the laboratory. Four hours per week including laboratory.

50.532 BIOCHEMICAL GENETICS

3 semester hours

The study of macromolecular complexes, protein synthesis, and the regulation of cellular activity with emphasis on the eukaryotes. Three hours lecture/seminar per week

50.551 CONSERVATION OF BIOLOGICAL RESOURCES

3 semester hours

Emphasis is on the theory and practice of environmental conservation of biological resources and on applied ecology. Field trips will be made to observe practices of wildlife, forest, and soil conservation. Five hours per week including laboratory.

50.552 LIMNOLOGY 3 semester hours

Chemical and physical aspects of lakes, ponds, and streams and of the nature of their biota. Laboratory and field investigations will be included. Five hours per week including laboratory.

50.553 ANIMAL ECOLOGY

3 semester hours

Animal environmental relationships considered at the levels of individuals, species, populations, the distribution, and the role of animals in communities and ecosystems. Emphasis placed on population ecology. Laboratory and field studies include investigation of physical and biotic aspects of the environment. Five hours/week including laboratory

50.554 PLANT ECOLOGY

3 semester hours

Study of interrelationships among plants and their environments. Physical and biological factors plus human influences involved in the distribution, associations, and successions of plant populations and communities are investigated. Five hours per week including laboratory

50.556 FIELD STUDIES IN THE APPALACHIAN MOUNTAINS

3 semester hours

50.557 BIOLOGY OF THE LOWER VERTEBRATES

4 semester hours

Study of fishes, amphibians, and reptiles embracing their anatomy and physiology, evolutionary history, zoogeography, and behavior. Field and laboratory work includes collection and identification of loca fauna. Six hours per week including laboratory.

50.571 ENDOCRINOLOGY

3 semester hours

The individual glands of the endocrine system are studied with respect to their development, morphology, function, regulation, and significance in integrating physiological activities of higher vertebrates. Three hours lecture per week.

50.572 COMPARATIVE ANIMAL PHYSIOLOGY

3 semester hours

A comparison of higher vertebrate adaptations to various environments with respect to regulation of body fluid volume composition, core temperature, and nitrogen metabolism. Four hours per week

50.591 DIRECTED STUDY IN BIOLOGY

3 semester hours

An opportunity to carry on an independent investigation in an area of biology in which the student has a particular interest. Such investigation is under the direction of a member of the Department of Biology. The student is encouraged to identify a problem, employ an experimental design, and analyze data collected therefrom. Study of pertinent literature is a requirement of the course.

50.592 MASTER OF EDUCATION THESIS

3 or 6 semester hours

Independent research and the preparation of a formal thesis in partial fulfillment of the requirements for the degree of Master of Education in Biology.

50.593 MASTER OF SCIENCE THESIS

(See description of 50.592.)

CHEMISTRY (Code 52)

COURSE DESCRIPTONS

52.441 BIOCHEMISTRY

3 semester hours

Chemistry of proteins, nucleic acids, lipids, carbohydrates; intermediary metabolism; introduction to enzyme chemistry. Three hours class per week.

Prerequisite: 52.232, 312, or concurrent

52.501 ENVIRONMENTAL CHEMISTRY

4 semester hours

Chemistry of the earth, air, and water with emphasis on the impact of human activities on each. Natural resources, environmental pollutants, and chemical approaches to conservation are discussed. Laboratory experiments emphasize the methods of analysis of various substances in water, air, and soils. Three hours lecture and 3 hours laboratory per week.

Prerequisite: One year each of college-level chemistry, physics, and mathematics.

52.502 CHEMISTRY PROJECT LABORATORY

2 semester hours

Methods and projects for innovative laboratory experiences in high school and middle school chemistry laboratories. Emphasis is placed on applications of standard laboratory procedures in project-oriented settings. Examples of lecture demonstrations also are shown. One hour lecture and 3 hours laboratory per week.

Prerequisite: One year each of college-level chemistry, physics, and mathematics.

52.511 ESSENTIALS OF PHYSICAL CHEMISTRY

3 semester hours

Physical chemical topics which are required for more advanced courses. Topics include the kinetic theory of gases, the structure of the solid state, properties of liquids and solutions, thermodynamics, kinetics, and chemical bonding.

Prerequisite: One year each of college-level chemistry, physics, and mathematics.

PHYSICS (Code 54)

COURSE DESCRIPTIONS

54.421 SOLID STATE PHYSICS

3 semester hours

Physical properties of matter in the solid state. Basic quantum concepts, crystal structure, electrons in metals, electrical conductivity, semi-conductors, band theory, and the p-n junction. Dielectric and magnetic properties of matter.

54,422 THERMODYNAMICS

3 semester hours

Concepts and principles of classical thermodynamics. Thermodynamics of simple systems. Introduction to kinetic theory and statistical thermodynamics.

54.450 INTRODUCTION TO QUANTUM MECHANICS

3 semester hours

An introduction to the fundamentals of quantum and wave mechanics beginning with a review of quantum radiation theory and proceeding through the Schroedinger presentation. Treatment includes one dimensional potential function, the harmonic oscillator, and the hydrogen atom. Prerequisite: Physics 54.311, 314; Mathematics 53.322

54.480 HISTORY OF PHYSICAL SCIENCE

3 semester hours

An account of the development of physical science from the time of Copernicus to the present with attention to the nature of scientific investigation, assumptions, constructs, and models and the interaction of science with other thinking.

54.501 MATHEMATICS FOR TEACHERS OF PHYSICAL SCIENCE

3 semester hours

Basic mathematical techniques of physics and chemistlry with applications appropriate to teachers of the physical sciences. Methods of trigonometry, calculus, and vectors at a level to follow first-year college mathematics.

54.510 ELEMENTS OF CLASSICAL MECHANICS AND WAVES

3 semester hours

A review and extension of basic concepts and methods in the mechanics of particles and objects, wave motion, and kinetic theory.

54.511 ELEMENTS OF CLASSICAL ELECTRICITY AND OPTICS

3 semester hours

A review and extension of basic concepts and methods in electricity and magnetism and optics.

54.512 ELEMENTS OF MODERN ATOMIC AND NUCLEAR PHYSICS

3 semester hours

A review and application of the modern concepts of relativity, quanta, radiation, and wave mechanics to atomic and nuclear physics.

54.520 APPLIED ELECTRONICS

3 semester hours

The construction and characteristics of electronic devices such as amplifiers, oscilloscopes, meters, and transducers and their use in the acquisition, processing, and display of scientific data. Theory integrated with laboratory experience.

54.530 MODERN ADVANCED LABORATORY

3 semester hours

Laboratory work with modern instrumentation of intermediate sophistication in a variety of areas such as nuclear radiation, magnetic field effects, vacuum, mass spectroscopy, nuclear magnetic resonance, lasers, and interferometry.

54.540 CURRENT APPLICATIONS OF MODERN PHYSICS

3 semester hours

Application of principles and methods of modern physics to selected current topics of significance and probable classroom interest. Examples: lasers and holography, nuclear energy, cosmology, and solid state semiconductors.

54.550 MATHEMATICAL METHODS OF THEORETICAL PHYSICS

3 semester hours

Development and use of mathematical concepts and techniques appropriate to further study in graduate-level physics. Vector calculus, differential equations, complex variables, special functions. Fourier analysis, etc.

54.552 THEORETICAL PHYSICS FOR TEACHERS

3 semester hours

Development of more sophisticated theoretical aspects of such basic areas of physics as electromagnetic radiation, mechanics, particles and waves, quantum mechanics, fields, etc.

Prerequisite: 54.550 or equivalent

54.560 RECENT DEVELOPMENTS IN HIGH SCHOOL PHYSICS

3 semester hours

A consideration of modern programs including PSSC Physics and Harvard Project Physics covering course content, laboratory work, philosophy, and method of teaching.

54.561 RECENT DEVELOPMENT IN JUNIOR HIGH SCHOOL SCIENCE

3 semester hours

A consideration of modern programs including ISCS and IPS covering course content, laboratory work, philosophy, and method of teaching.

54.570 INDEPENDENT STUDY

1-3 semester hours

Individual investigation (laboratory or theoretical) of an area of special interest following a plan consistent with the resources of the department and approved before registration by a supervising professor. Number of credits depends upon the magnitude of the study.

54.592 MASTER'S PAPER PHYSICS

3 semester hours

An extended paper presenting, from a novel aspect, the results of a study in depth of a topic or area in physics. May include laboratory work. Pre-registration approval must be secured from a supervising professor.

54.599 PHYSICS RESEARCH

3-6 semester hours

Experimental and/or theoretical research leading to a thesis that shows new knowledge or original scholarship on the part of the student. Pre-registration approval must be

secured from a supervising professor. Number of credits depends upon the complexity and magnitude of the project.

Master of Science in Instructional Technology

Program Description: The master's degree program in instructional technology addresses the preparation of three types of professionals:

- those who wish to enter a career in the training and development sector of business, industry, non-profit institutions, or government;
- those who already work in business, industry, or health care settings as trainers and developers but seek a formalized degree structured for their needs and further development;
- those who wish to become instructional technology resource specialists in private, public, or higher education

The curriculum of the program concentrates on the application of the computer and other emerging technologies to education and training with the emphasis directed toward the design, development, and production of computer-based interactive videodisc courseware. Master's candidates have the opportunity to experience a variety of state-of-the-art interactive video configurations through an instructional systems approach with the general program theme being related to obtaining a background typically associated with an Interactive Video Specialist. More specifically, the program curriculum includes study in the following areas:

Curriculum and Instructional Design

Systems approach

C/I models

Psychology of learning

Theories of Learning

Instructional Computing

Computing literacy

Programming/authoring

Computer assisted instruction Computer-based interactive video

Video Production and Post Production

Equipment Scripting

Aesthetics Editing

Technology

Past and current technologies

Emerging technologies

Networking

Human Resource Development

Team relationship Interpersonal skills
Organizational psychology Project management
Organizational training

Course offerings

Persons who hold a bachelor's degree in any discipline from an accredited four-year college may become degree candidates and proceed to the master of science degree by completing a minimum of 30 semester hours (credits). All courses are three credits unless otherwise indicated.

F = Fall S = Spring SU1 = 1st Summer Session SU2 = 2nd Summer Session

Required core courses (15 credits)

93.583 Human Resource Dev. (F) or 48.453 Organizational Psychology (S)

25.585-7 Public Address Seminar (F) or 27.415

Communication Technology (S)*

79.580 Instructional Design I (F) * or 60.584 Curriculum and Instr. (S)

27.511 TV Production and Design (SU2)

53.580 Programming for Interactive Video (SU1)

Elective courses (12 credits minimum)

79.581 Instructional Design II (S)*

79.582 Author Systems*

53.575 Computer Programming for Instructional Applications (F)

53.576 Computer Graphics for Instructional Applications (S)

53.577 Pascal for Instructional Applications (SU1)

53.578 Design for Instructional Systems Using Pascal (SU2)

60.578 Group Process in Supervision

60.579 Supervision of Instruction

60.585 Curriculum and Instructional Evaluation

53.541 Statistical Applications

Screen design

*Courses under development; to be approved

Required final course (3-6 credits-one course required)

09.590 Internships

09.599 Thesis

COURSE DESCRIPTIONS

09.580-589 SPECIAL TOPICS

1-3 semester hours

Special Topics provides an opportunity for graduate students from any graduate program to expand their knowledge from a previously learned experience or to explore a new learning experience not offered on a regular basis. Each Special Topic course can carry from one to three semester hours. Prerequisites for each Special Topic will be determined by the instructor.

09.590 GRADUATE INTERNSHIP

1-6 semester hours

Provides a work-study experience initially administered by an academic faculty member and a sponsoring employer. This course also provides the opportunity for an internship experience across disciplines at a graduate level.

09.599 THESIS 3-6 semester hours

Development of a computer-based interactive video project using the systems approach.

25.585-7 PUBLIC ADDRESS SEMINAR

3 semester hours

Specialized study by the class. The subject is selected by the instructor of public address.

27.415 COMMUNICATION TECHNOLOGIES

3 semester hours

Course provides a review of the emerging technologies of computers, satellites, cable television, and home media from the perspective of the historical development, impact on audiences, economics of the media, regulation of the media, and business status of the media.

27.511 TELEVISION PRODUCTION AND DESIGN

3 semester hours

Course focuses on the practical aspects of planning and producing video tapes for specific instructional purposes. Covers pre-production planning, production activities, and post-production editing.

48.453 ORGANIZATIONAL PSYCHOLOGY

3 semester hours

Describes the applications of psychological theory and research to the study of industrial, business, profit and nonprofit service, military, and governmental organizations. Emphasizes the interaction of individual perceptions, group dynamics, and organizational climates and strategies to maximize the satisfaction and effectiveness of each component within and between complex organizations.

53.575 COMPUTER PROGRAMMING FOR INSTRUCTIONAL APPLICATIONS

3 semester hours

Fundamental concepts of the BASIC programming language are used to provide a foundation for the design and development of processes needed for the production of instructional computing programs.

53.576 COMPUTER GRAPHICS FOR INSTRUCTIONAL APPLICATIONS

3 semester hours

A sequel to 53.575 where techniques for creating color, graphics, and sound are examined and applied to the development of instructional computing programs.

53.577 PASCAL FOR INSTRUCTIONAL APPLICATION

3 semester hours

A thorough study of the fundamental concepts and

applications of the structured programming language Pascal provides the skills essential for the design of instructional computing materials.

53.578 DESIGN OF INSTRUCTIONAL SYSTEMS USING PASCAL

3 semester hours

This course applies the concepts and skills covered in 53.577 primarily to the design and development of instructional learning episodes and, secondly, to the design of instructional support systems.

53.580 PROGRAMMING FOR INTERACTIVE VIDEO

3 semester hours

The fundamental concepts of an author language/system are used to provide for the design and development of computer-based courseware that integrates interactive video, audio, computer-generated text, and graphics.

53.592 SPECIAL TOPICS

3 semester hours

60.578 GROUP PROCESSES IN SUPERVISION

3 semester hours

Emphasis is given to group processes, communication in the group, and organizational goals related to educational supervision. The focus is on knowledge of and practice in laboratory experiences in group processes and applicability to supervision. These experiences are intended to provide opportunities for experimenting with and evaluating leadership skills and provide a means of promoting creativity and initiative.

60.579 SUPERVISION OF CURRICULUM AND INSTRUCTION

3 semester hours

Through an examination of the objectives, techniques, and materials of staff supervision, this course defines the supervisory function directed toward the improvement of instruction. Emphasis is placed upon the interrelationships between the humanistic aspects of education and democratic administrative behavior. Roles of contemporary supervision with respect to educational quality assessment, inter-personal relations, and the catalytic role of the supervisor are studied.

60.584 CURRICULUM AND INSTRUCTIONAL THEORY, DESIGN, AND DEVELOPMENT

3 semester hours

Curriculum and instructional evaluation is a competency-based course consisting of elements providing a base for the student in current theory and practice in the evaluation of school curriculum and instruction. Reviews, critiques, and application of current thinking and practice in curriculum evaluation are an integral part of the course.

79.580 INSTRUCTIONAL DESIGN I

3 semester hours

This course introduces the learner to methods of instructional systems and design to be applied to situations within an academic or industrial training classroom or to types of instructional materials within those settings.

79.581 INSTRUCTIONAL DESIGN II

3 semester hours

This course is a sequel to 79.580 where more advanced aspects of instructional systems including models, theories, screen design, and the like are examined.

79.582 AUTHOR SYSTEMS

3 semester hours

This course is a sequel to 53.580 where a more careful, in-depth study of various interactive video systems and their accompanying author systems/languages occurs.

93.583 HUMAN RESOURCES DEVELOPMENT

3 semester hours

The course foucses on the current research and theory related to the management and development of human resources in organizational settings. Specific emphasis is placed on basic principles of behavior, motivation, training and development, leadership, and performance in organizations.



COLLEGE OF PROFESSIONAL STUDIES

SCHOOL OF EDUCATION

EDUCATIONAL FOUNDATIONS

COURSE DESCRIPTIONS

(Code 60)

60.451 PUPIL PERSONNEL SERVICES IN THE PUBLIC SCHOOL

3 semester hours

A comprehensive view of pupil personnel services in elementary and secondary schools; school attendance, school health programs, pupil transporation, psychological services, guidance services.

60.501 MAJOR PHILOSOPHIES OF EDUCATION

3 semester hours

Modern educational problems and trends interpreted in the light of philosophical viewpoints; study of primary sources of concepts and philosophies which have influenced and are influencing education.

60.502 SCHOOL AND SOCIETY

3 semester hours

Effects on the school program of social class, family and community pressures, and changing patterns and standards of life in our society. The course aims to foster understanding of these pressures and patterns so as to enable the teacher to work effectively in encouraging the good and reducing the harmful impacts of social forces in relationships of children.

60.503 HISTORY OF AMERICAN EDUCATIONAL THEORY

3 semester hours

Historical foundations of American educational theory with emphasis on individuals and schools of thought which have influenced and are influencing education in America.

60.505 COMPARATIVE EDUCATION

3 semester hours

Educational ideas and practices of various countries of the world are examined for their impact upon our culture and education. Particular attention is given to the relationship of European educational programs to the American philosophy and practice of public education.

60.506 URBAN EDUCATION FOR THE DISADVANTAGED

3 semester hours

A course designed to increase awareness of problems of the urban educational system. The course emphasizes a growth of sensitivity to the disadvantaged youngster, indepth examination of current research findings in each area studied, teaching strategies, and resources and approaches to resolve major problems. Discussion of polarization on critical problem areas.

60.507 USING NEWSPAPERS IN THE CLASSROOM

3 semester hours

An activity-centered course that provides the teacher with an orientation to the use of the newspaper in various subject areas. Opportunities for the development of learning experiences will be provided.

60.511 CURRICULUM AND INSTRUCTIONAL DEVELOPMENT

3 semester hours

Recent trends in curriculum development identifies, examines, and evaluates selected organizing principles in determining the content of curriculum and the exemplifications of such principles in curricular projects. Opportunities are provided for the educator to develop competency in applying curricular principles to local educational environments and curriculum development.

60.514 HOME, SCHOOL, AND COMMUNITY RELATIONS

3 semester hours

An introductory course in public relations with special reference to elementary school in which a philosophy of partnership between home, school, and community is developed and principles, attitudes, and techniques to encourage community sharing in the planning of and assuming responsibility for good schools are considered.

60.512 SELECTION AND USE OF AUDIO-VISUAL MATERIALS IN EDUCATION

3 semester hours

Advanced study of the role of media in the educative process. Includes the critical assessment of that role, the selection of equipment and materials for optimum utility, a review of contemporary literature in the field, and a production component that involves advanced work in television, transparencies, slide-tape, and computer-assisted instruction.

60.520 GUIDANCE AND COUNSELING FOR EXCEPTIONAL CHILDREN

3 semester hours

A study of the needs of exceptional children in the public schools (including the academically talented); guidance and counseling techniques for teachers and guidance counselors in meeting those needs; guidance and counseling for exceptional children related to the total guidance counseling program.

60.530 GUIDANCE IN THE ELEMENTARY SCHOOLS

3 semester hours

Concepts and techniques of the guidance process in the elementary school; behavioral and developmental problems; releasing creative capacities of children.

60.533 MEASUREMENT AND EVALUATION IN THE ELEMENTARY SCHOOL

3 semester hours

Construction, administration, and interpretation of group tests of intelligence, achievement, aptitude, and personality in elementary schools.

60.550 PROBLEMS IN GUIDANCE AND COUNSELING

3 semester hours

Philosophy of guidance; history of the guidance movement; guidance needs of children and adolescents; methods of gathering data; nature of school records; interpretation of test results and inventories; use of occupational information and data; interviewing and counseling techniques.

60.551 TECHNIQUES IN COUNSELING

3 semester hours

Theories, principles, and practices of counseling; development and use of counseling materials such as test results, educational information, and other pertinent materials.

60.552 ORGANIZATION AND SUPERVISION OF GUIDANCE

3 semester hours

Types of guidance organizations used in schools and their effectiveness in providing for good guidance.

60.561 MEASUREMENT AND EVALUATION IN THE SECONDARY SCHOOL

3 semester hours

Construction, administration, and interpretation of group tests in intelligence, achievement, aptitude, and personality in secondary schools.

60.573 INTRODUCTION TO EDUCATIONAL ADMINISTRATION

3 semester hours

An examination of the functions and tasks of educational administration is the primary focus of this course. Issues include the evolving school setting, the meaning, development, and work of school administrators, educational systems analysis, school personnel administration, administrative and organizational behavior, and career ladders in educational administration.

60.576 SCHOOL LAW AND FINANCE

3 semester hours

Consideration is given to the limitations established by local, state, and federal law related to the interactions of school personnel. Special attention to recent changes resulting from judicial decisions. Fiscal control of education with emphasis on local budgetary problems is a major objective.

60.577 EDUCATIONAL RESEARCH FOR SUPERVISION

3 semester hours

Consideration is given to the development of ability to read and interpret educational research and apply it to a school situation. Conclusions concerning curriculum content and teaching strategies designed for the improvement of the educational process are emphasized.

60.578 GROUP PROCESSES IN SUPERVISION

3 semester hours

Emphasis is given to group processes, communication in the group, and organizational goals related to educational supervision. The focus is on knowledge of and practice in laboratory experiences in group processes and applicability to supervision. These experiences are intended to provide opportunities for experimenting with and evaluating leadership skills and provide a means of promoting creativity and initiative.

60.579 SUPERVISION OF CURRICULUM AND INSTRUCTION

3 semester hours

Through an examination of the objectives, techniques, and materials of staff supervision, this course defines the supervisory function directed toward the improvement of instruction. Emphasis is placed upon the interrelationships between the humanistic aspects of education and democratic administrative behavior. Roles of contemporary supervision with respect to educational quality assessment, interpersonal realtions, and the catalytic role of the supervisor are studied.

60.580 SEMINAR IN SUPERVISION OF CURRICULUM AND INSTRUCTION

3 semester hours

This is a field-based practicum experience that places the candidate for a Curriculum and Instruction N-12 supervisory certificate in a cooperative relationship with an individual in a school setting responsible for the overall planning coordination, implementation, and evaluation of a school system curricular and instructional program. The experience is competency based, and the experiences of the practicum are shared and discussed in a weekly seminar. Evaluation of the individual candidate's performance in the experience is based on achievement of specified competencies.

60.581 INDEPENDENT STUDY IN EDUCATION

1-6 semester hours

Designed for teachers in public schools as an opportunity to pursue in-service projects in cooperation with a faculty adviser. The teacher submits a "learning contract" to an adviser designated by the department chairperson. The contract details the academic goals and includes a description of the project in its relation to the goals, a reading list, the proposed credit, and a description of a proposal for a final report. Permission to register for the course is granted upon approval of the contract. Evaluation is based on the written report and an examination by a committee appointed by the adviser and/or department chairperson. Students may register at any suitable time; the duration of the experience is flexible.

60.583 SEMINAR IN EDUCATION

1-6 semester hours

Designed to provide opportunity for a group of teachers engaged in a common in-service project to use the resources of the college and its faculty in connection with the project. A "learning contract" similar to that of 60.581 is submitted by the group as a basis for permission to register. Papers related to aspects of the project and to the literature designated in the contract are presented by the members for discussion and criticism in seminar meetings held under direction of a faculty member. Evaluation is based upon the seminar reports and a final comprehensive written report by the student.

60.584 CURRICULUM AND INSTRUCTIONAL THEORY, DESIGN, AND DEVELOPMENT

3 semester hours

This is a competency-based course consisting of elements providing a base for the student in relevant theory associated with the activity of curriculum development. A review, critique, and evaluation of current theoretical positions and design methodology are an integral part of the course.

60.585 CURRICULUM AND INSTRUCTIONAL EVALUATION

3 semester hours

Curriculum and instructional evaluation is a competency-based course consisting of elements providing a base for the student in current theory and practice in the evaluation of school curriculum and instruction. Reviews, critiques, and application of current thinking and practice in curriculum evaluation are an integral part of the course.

PROFESSIONAL STUDIES

(Code 79)

79.591 RESEARCH IN EDUCATION

3 semester hours

A study of the methods and techniques used in educational research; the development and interpretation of statistical data and the application to professional problems.

ELEMENTARY AND EARLY CHILDHOOD EDUCATION

Master of Education Degree

Elementary Education

Purpose: This program is intended to enhance the professional competence of the individual as a teacher and leader through integrated learning experiences in study of the child, the curriculum, current practice, and the teacher's academic field.

Prerequisite: Instructor Level I certification for teaching in the elementary school.

Required: Educational Foundations-60.501, 79.591; Master's Research Paper or a departmental paper in elementary education; six to 12 semester hours in courses pertinent to a professional specialization or in an academic discipline. (The general degree requirements are stated in the Master of Education Degree section.)

Electives: Electives to complete the minimum degree program may be selected with approval of the adviser from several departments.

Master of Science Degree

Early Childhood Education

Purpose: This program is intended to enhance the professional competence of the individual as a teacher of young children through integrated learning experiences in the study of the young child, the curriculum, current practice, and the teacher of young children's areas of interest. Individuals not holding any type of certification can obtain the N-K-3 certificate. The program also has an option that enables the teacher with a K-6 certification to obtain an N-K-3 (early childhood education) certification.

Required courses: 62.522, 523, 62.590, 62.591, 592, 593: Master's research paper departmental paper, a comprehensive examination or a comprehensive curriculum project in early childhood education; six credits in foundation courses; and six credits in courses related to this professional specialization. N-K-3 certification will be granted to those students who complete 36 semester hours of graduate study of which six hours of graduate work was of a field experience/practicum nature. Students selecting to seek N-K-3 certification are required to complete 62.594. Practicum in Early Childhood Education.

Elective: Electives to complete the minimum degree program or the degree program with the N-K-3 certification may be selected with approval of an adviser from several departments.

Students seeking admission to candidacy must complete a written screening examination.

All N-K-3 teacher certification candidates seeking their first instructional I certification after May 31, 1987, must demonstrate that they have successfully completed examinations in program specialization, basic skills, professional skills, and general knowledge.

ELEMENTARY AND EARLY CHILDHOOD EDUCATION

COURSE DESCRIPTIONS

(Code 62)

62.410 WORKSHOP IN PRESCHOOL EDUCATION

1-6 semester hours

A course designed for both teachers in-service and upperlevel undergraduates. Study of selected areas in early childhood education. Individual or group study of subjects of interest or concern in teaching.

62.520 BRITISH INFANT SCHOOL EDUCATION AND THE INTEGRATED DAY

3 semester hours

A course designed primarily for elementary education students with emphasis on the philosophy, composition, and daily routine of headmasters and assistants, teachers, and auxiliary personnel, pupils, and their parents. In addition, family grouping and the integrated day methodology will be stressed as research findings and recommendations of the Plowden Report concerning education in England. And finally, the implications and applications of the British program in the United States will be explored, and plans for implementation of adaptable activities and planning will be undertaken.

62.521 ELEMENTARY SCHOOL CURRICULUM

3 semester hours

A study of problems related to development, experimentation, and improvement of curriculum practices in the elementary school.

62.522 CURRICULUM TRENDS IN EARLY CHILDHOOD EDUCATION

3 semester hours

A study of the changing goals and the developing programs required to meet the needs of children who enter school with increased experiential background.

62.523 PRACTICES IN TEACHING THE YOUNG CHILD

3 semester hours

An examination of current practices in teaching the young child with emphasis on the developmental aspects of childhood as they relate to the school program.

62.524 KNOWLEDGE AND THE CURRICULUM IN THE ELEMENTARY SCHOOL

3 semester hours

A study of the place of knowledge in developing a curriculum. The emphasis is on content as it is influenced by innovative practices.

62.525 CURRENT PRACTICES IN ELEMENTARY SCHOOL SCIENCE

3 semester hours

A study of the problems resulting from the increased interest of children in science and the need for science instruction in the elementary grades; methods and materials for nurturing these interests and for implementing science instruction within the limits of the interests of children are presented and evaluated.

62.527 SOCIAL STUDIES IN THE ELEMENTARY SCHOOL

3 semester hours

An examination of contemporary trends and current research in the disciplines of the social sciences as a basis for development of a conceptual framework for a social studies program.

62.528 LANGUAGE ARTS IN THE MODERN SCHOOL

3 semester hours

A study of problems related to instruction in various aspects of the language arts; the place of the language arts in the curriculum; current research and its practical application.

62.529 LITERATURE FOR CHILDREN IN THE ELEMENTARY GRADES

3 semester hours

A survey of ways that children may encounter literature and methods that are effective in the encounter. Students become acquainted with children's books, work with children in a story-telling experience, discover ways other than through reading by which children may experience literature.

62.530 AWARENESS OF ENVIRONMENTAL EDUCATION PROBLEMS FOR THE ELEMENTARY SCHOOL

3 semester hours

This course is designed to help the classroom teacher organize environmental education activities. Areas of content, problem-solving activities, material sources, the use of resources, curriculum building, development of an awareness of environmental problems, and possible solutions to them. Camping and a camp fee are required.

62.531 ENVIRONMENTAL EDUCATION AWARENESS ACTIVITIES AND MATERIALS FOR THE ELEMENTARY SCHOOL

1-3 semester hours

An opportunity for students to broaden their experiences in environmental education. Camping and a camp fee are required.

Prerequisite: 62.530

62.533 VALUES CLARIFICATION IN THE ELEMENTARY SCHOOL

3 semester hours

A course designed primarily for elementary education students in which the emphasis is on the philosophy and composition of values clarification as it applies to the elementary school child. Practical and theoretical aspects will be stressed as well as techniques for helping children begin to build a value system by which they can live. Emphasis will be placed on methods which aid the teacher in becoming aware of the emotional needs of children, humanizing of the education process, and improvement of working/learning relationships with others.

62.534 CREATIVITY FOR TEACHERS

3 semester hours

This course is intended to help teachers to become more creative in their approaches to their students and subject matter. Emphasis is on understanding creative process, recognizing the creative child, and development of the creative potential of student and teacher.

62.539 CURRENT TOPICS IN ELEMENTARY EDUCATION

3 semester hours

An investigation of current thinking and research in aspects of elementary education.

62.581 INDEPENDENT STUDY ELEMENTARY EDUCATION

1-6 semester hours

Comparable to 60.581.

62.583 SEMINAR IN ELEMENTARY EDUCATION

1-6 semester hours

Comparable to 60.583.

62.590 CURRENT RESEARCH AND DEVELOPMENT IN EARLY CHILDHOOD EDUCATION

3 semester hours

An examination of recent literature and experimental work in the field of early childhood education--pre-school, kindergarten, primary. Characteristics of the learner, learning environment, learning materials, and innovative programs. These departmental paper and/or curriculum projects are initiated in this course.

62.591 LEARNING AND DEVELOPMENT OF THE YOUNG CHILD

3 semester hours

A survey of child development and its relationship to the early school years. The development of the young child from ages two through eight.

62.592 IDENTIFICATION AND PRESCRIPTION OF THE NEEDS OF YOUNG CHILDREN

3 semester hours

A course in the techniques of identifying of the physical, emotional, social, and mental needs of young children and developing appropriate prescripture procedures.

62.593 ORGANIZATION AND ADMINISTRATION OF EDUCATIONAL PROGRAMS FOR YOUNG CHILDREN

3 semester hours

A study of the various programs in early childhood education with emphasis on the expansion and administration with regard to the selection of personnel, evaluative techniques, and curriculum procedures, school law, finance, and other appropriate subjects.

62.594 PRACTICUM IN EARLY CHILDHOOD EDUCATION

6 semester hours

An individually prescribed course of study and activity based on (but not limited to) previous experience and academic achievement. Consent of program coordiantor and department chairperson required.

62.595 INDIVIDUALIZED INSTRUCTION--PRINCIPLES AND PRACTICES FOR THE CLASSROOM

3 semester hours

An analysis of practices, principles, and procedures for individualizing instruction. Experiences include procedures for adapting conventional instructional modes to individualized settings.

62.599 MASTER'S RESEARCH PAPER

3 semester hours

Student demonstrates ability to employ accepted methods of educational research in the solution or intensive study of some problem area of interest or concern to him or her. The problem area selected for the research project must be related to the curriculum that the student is pursuing.

READING (Code 63)

Master of Education Degree in Reading

Purpose: This program is intended to prepare experienced teachers to become reading supervisors or specialists through learning experiences in diagnostic and remedial techniques, insights in psychology of learning, means of stimulating enjoyment of reading, training in supervision predres, and clinical practice.

Prerequisites: Level I teacher certification; a basic course in teaching of reading.

Required: Departmental paper

Elective: Elective courses from disciplines other than reading may be selected dependent upon the needs and educational background of the student.

Examination: A comprehensive written and/or oral examination is a graduation requirement in this program.

COURSE DESCRIPTIONS

63.540 INTRODUCTION TO THE TEACHING OF READING

3 semester hours

On examination of trends in reading instruction; development of competence in the use of different approaches to the solution of reading problems.

63.541 DIAGNOSIS AND PRESCRIPTION IN READING REMEDIAL READING DIFFICULTIES

3 semester hours

Diagnostic and remedial procedures emphasizing both standardized and informal techniques, analysis of extreme reading disabilities, preparation of a case study, stress of corrective and remedial procedures, and a working knowledge of how to write prescriptions for clients with reading problems.

63.542 PSYCHOLOGICAL ASPECTS OF READING

3 semester hours

Psychological foundations of learning theories, their relationship to reading, their subsequent effect on reading achievement.

63.543 READING CLINIC I

3 semester hours

Clinical experience in the diagnosis and remediation of reading and/or learning disabilities; diagnosis, development, administration, and evaluation of individual programs; case studies.

Prerequisites: Six hours selected from 63.541, 548, 542, and consent of director.

63.544 READING CLINIC II

3 semester hours

Clinical experience in the development of reading skills and comprehension with persons who may or may not have remedial and/or learning disabilities. Combined with 63.543 gives experience with all levels. Continued evaluation of individual programs, case studies.

Prerequisites: Six hours selected from 63.541, 542, 548, and consent of director.

63.545 ORGANIZATION, ADMINI-STRATION, AND SUPERVISION OF READING PROGRAMS (K-12)

3 semester hours

A course for the reading personnel, specialists, supervisors, and administrators who will or may become involved with the supervising and programming responsibilities of a reading program. A discussion of types of federal and/or school reading programs as well as a summary of the requirements of ESEA Titles, and how to write a federal program are an integral part of this course.

63.546 READING IN THE CONTENT AREAS 3 semester hours

Designed for teachers in grades four to 12. Procedures and materials presented in word perception, special reading and study skills, vocabulary development, dictionary skills, and library techniques.

63.547 SEMINAR IN READING

3 semester hours

Independent work in the study of recent research in the field of reading as it is applied to the departmental paper. New curricular, materials, and procedures of teaching reading.

63.548 LEARNING DISABILITIES AND READING INSTRUCTION RELATION TO READING

3 semester hours

This course is designed for the reading specialist and/or reading supervisor. Language disorders as a factor in learning. Perceptual abilities, i.e., auditory and visual modalities for learning disabilities. Recent research in the area of learning disabilities.

63.549 TEACHING READING TO THE HEARING IMPAIRED/LANGUAGEHANDICAPPED CHILD

3 semester hours

Principles, practices, methods, and materials of teaching reading to the hearing impaired/language handicapped; discussion, reading, clinic practices with clients, and library research.

SECONDARY EDUCATION

(Code 65)

65.560 DEVELOPMENT OF THE SECONDARY SCHOOL CURRICULUM

3 semester hours

Problems related to development, experimentation, and improvement of curriculum practices in the secondary school.

65.530 INSTRUCTIONAL DEVELOPMENT IN MIDDLE AND JUNIOR HIGH SCHOOLS

3 semester hours

Inquiry into the role of early secondary education by analyzing historical trends, curricular patterns, instructional designs, and personnel structure of this organization unit. Emphasis on teacher behavior, student values and attitudes, and instructional designs peculiar to the junior high, middle, and intermediate schools.

65.571 EVALUATING TEACHING IN MIDDLE AND SECONDARY SCHOOL

3 semester hours

Improvement of instruction through self analysis. Micro-teaching techniques, planning dimensions, self-appraisal techniques. Designed for teachers with special reference to the work of cooperating teachers.

65.581 INDEPENDENT STUDY IN SECONDARY EDUCATION

1-6 semester hours

See 60.581.

65.583 SEMINAR IN SECONDARY EDUCATION

1-6 semester hours

See 60.583.

65.599 MASTER'S RESEARCH PAPER

3 semester hours

Student demonstrates the ability to employ accepted methods of educational research in the solution or intensive study of some problem area selected for the research project must be related to the curriculum that the student is pursuing.

(Code 60 and 65)

SUPERVISION

Specialization for the Supervisor of Curriculum and Instruction (N-12) Certificate Program

Purpose: The supervisor of Curriculum and Instruction Program is designed for candidates seeking certification with district-wide responsibilities and includes designing, coordinating, improving, evaluating, and extending instruction from N-12.

Prerequisites: (1) Candidates must provide proof of a Pennsylvania teaching certificate. (2) Candidates must provide evidence of at least five years of teaching experience. (Experience on an Emergency Certificate or an Interim Certificate is not acceptable).

Required: Candidates must complete a minimum of 30 graduate credits from the seven areas of competency.

- (1) Curriculum and instruction-theory, design, and development
- (2) Curriculum and early childhood, elementary, middle, and secondary education
- (3) Research
- (4) Supervision, management, and administration
- (5) Group dynamics
- (6) School law and finance
- (7) Practicum-field experience

Specialization for the Subject Area Supervisory (K-12) Certificate Program

Purpose: This program is designed for the person with primary responsibility of supervising and directing the activities of professional and non-professional employees in given fields.

Prerequisites: (1) Concentration in area for which certification is sought. (2) At least five years of experience in the field for which certification is sought. (Valid certificate in the field)

Required: A minimum of 21 semester hours of graduate hours of graduate courses from the following areas: (1) management and administration, (2) principles and practices in school supervision, (3) school law and finance, (4) group dynamics, (5) research techniques, (6) curriculum development, and (7) practicum-field experience.

SPECIAL EDUCATION

(Code 70)

Master of Science Degree in Special Education

Purpose: This program is intended to improve the competence of the teacher of exceptional individuals, to develop potential for leadership and to prepare for further graduate study in the field.

Prerequisites: Applicants must hold, or be eligible for, a current Pennsylvania teaching certificate for special education--Level I.

Program options: Applicants may elect preparation for teaching the mentally retarded, teaching the learning disabled, or teaching those with behavior disorders.

Required courses: Mental retardation: 70.502, 515, 525, 526, 544, 554, 591, 599--master's research paper or departmental paper (optional)--or 36 semester hour program.

Learning disabilities: 70.505, 532, 544, or appropriate reading course, 70.560, 590, 599--master's research paper or departmental paper (optional)--or 36 semester hour program.

Behaviorial disorders: 70.570, 571, 572, 599-master's research paper or departmental paper (optional)--or 36 semester hour program.



Master of Science Degree in Special Education with a Specialization in Exceptional Persons

Purpose: This program is designed for the professionals not in education who wish to expand their knowledge and develop new skills for working with the exceptional person. Prerequisite: Applicants must possess an earned baccalaureate degree from an accredited college or university and must meet all entrance requirements as stated in the current Graduate Studies brochure.

Program options: Applicants will have the opportunity to select courses outside of special education, to acquire additional information, and skills in his or her own discipline.

Required courses: 70.516, 565, or 591, five of the following: 70.455, 490, 501, 502, 517, 526, 532, 544, 552, 559, 560, 562, 570, 599 master's research paper, or departmental paper (optional)--or 36 semester hour program.

Master of Science Degree in Special Education with a Specialization in Gifted/Talented Persons

Purpose: This program is designed for individuals who wish to expand their knowledge and develop new skills for working with gifted individuals.

Prerequisite: Applicants must possess an earned baccalaureate degree from an accredited college or university and must meet all entrance requirements as stated in the current Graduate Studies booklet.

Program Options: Applicants will have the opportunity to select courses to acquire additional information and skills related to their particular situation.

Required Courses: 60.591 or 70.565, 517, 518, 62.534, 70.519, 552, 592, 599 master's research paper or departmental paper (optional)--or 36 semester hour program.

COURSE DESCRIPTIONS

70.432 LANGUAGE II 3 semester hours

Designed to aid the student in preparing to teach exceptional children basic and refined written language skills. Course content includes methods and materials for teaching penmanship, spelling, syntactical structure, and reading.

Prerequisite: 70.101, 231, and 62.371 or equivalent

70.450 METHODS FOR ELEMENTARY SPECIAL EDUCATION

3 semester hours

Fundamental principles for, and a variety of teaching techniques applicable to, the range of elementary levels of special education. Organization of programs, curricular approaches, and materials for the special education teacher.

Prerequiste: 70.101, 200, 250, and/or 251

70.451 METHODS FOR SECONDARY SPECIAL EDUCATION

3 semester hours

A student-centered workshop approach in analysis of methods, research, and philosophies currently in use in the teaching of special education students. Practice in the use of various teaching aids and machines related to student projects in secondary special classes.

70.455 LEARNING DISABILITES

3 semester hours

A study of the characteristics and symptoms of specific learning disorders. Students are introduced to diagnostic and educational procedures used with learning disorders. Emphasis is on perceptual and conceptual factors in the development of language skills.

(For individuals who have not had a previous course in learning disabilities.)

70.490 SPECIAL WORKSHOP

1-6 semester hours

Temporary special workshop seminars designed to focus on contemporary trends, topics, and problems in the field of special education. Lecturers, resource speakers, team teaching, field experience and practicum, new media, and related techniques. Usually are funded projects.

70.491 SPECIAL WORKSHOP

1-6 semester hours

(Refer to description of 70.490.)

70.492 SPECIAL WORKSHOP

1-6 semester hours

(Refer to description of 70.490.)

70.501 ADMINISTRATION AND SUPERVISION OF EDUCATION FOR EXCEPTIONAL INDIVIDUALS

3 semester hours

Application of fundamental principles of school administration and supervision to the areas of exceptionality and to problems unique to each. School law, teacher recruitment, inservice education, organization and integration of special education and ancillary services, evaluation of special provisions, and finance as these bear on special education.

70,502 MENTAL RETARDATION

3 semester hours

Intensive review of research pertaining to etiology of mental retardation, classification systems, and diagnosis. Includes study of brain injury, familial retardation, research on learning characteristics, and evaluation of psychological tests. Criteria distinguishing mental retardation from other problems.

70.505 SEMINAR IN LEARNING DISABILITIES

3 semester hours

This course is designed to facilitate an in-depth study of the behavioral characteristics and cognitive development of children with specific learning disabilities. It is specifically intended for those graduate students seeking a master's degree with concentrated emphasis in learning disabilities. Enrollment is limited to those who have the necessary prerequisites and with the approval of the instructor.

70.515 CURRICULUM AND MATERIALS FOR THE EDUCABLE MENTALLY RETARDED

3 semester hours

Problems-oriented course concerned with principles and procedures of curriculum and materials development and construction. Designed to further develop and/or refine the special education teacher's competence in developing adequate, meaningful curricular experiences for the retarded at various levels.

70.516 PSYCHOLOGY OF EXCEPTIONAL INDIVIDUALS

3 semester hours

Symptomatology, personality formation, and developmental and therapeutic consideration for the exceptional individual.

70.517 EDUCATION OF THE GIFTED INDIVIDUAL

3 semester hours

Principles and practices that are modifying school programs to conserve and develop to the optimum degree the capabilities of the more able individuals. A study is made of teaching techniques and devices used effectively in both the elementary and the secondary school.

70.518 IDENTIFICATION AND EVALUATION IN GIFTED/TALENTED EDUCATION

3 semester hours

This course is designed to provide information that will assist students to become familiar with physical, mental, emotional, and social characteristics of the gifted/talented and to use formal and informal assessment devices and procedures to identify, evaluate, and classify the gifted/talented so that appropriate individual educational programs may be provided for them. Ways of developing informal assessments, gathering, and storing observational information and classifying gifted/talented students according to individual educational needs will be covered.

70.519 CURRICULUM AND PROGRAM DEVELOPMENT IN GIFTED/ TALENTED EDUCATION

3 semester hours

The purpose of this course is to provide in-service teachers, administrators, interested parents, and others with comprehensive theoretical and practical approaches to teaching gifted/talented individuals. The intention is to present a variety of approaches that can be combined or integrated into a unique plan to fit each individual's needs.

70.525 CURRICULUM AND MATERIALS FOR LOW FUNCTIONING MENTALLY RETARDED

3 semester hours

Designed to give the student intensive study and understanding of the trainable mentally retarded child. Emphasis on curriculum development, methods, and materials to be used with the trainable mentally retarded child in school. Research, methods of diagnosis and differentiation, implications for training, and psychological planning.

70.526 VOCATIONAL WORK STUDY PROGRAM

3 semester hours

Investigation and analysis are concerned with manual skills at various developmental levels. Research criteria and information are applied to job performance and adjustments and to the community and to job opportunities. Experience is provided in job analysis for skills involved and in surveying job adjustments of handicapped adults.

70.532 COMMUNICATION DISORDERS OF EXCEPTIONAL INDIVIDUALS

3 semester hours

Review of research and analysis of language and speech development in relation to intellectual development, cultural background and other influences, criteria and techniques for developing language and speech in the special class, role of speech correctionist and others to teachers.

70.544 DIAGNOSTIC AND REMEDIAL TECHNIQUES

3 semester hours

Diagnostic and remedial techniques and instruments used with children in special education programs. Critical evaluation of applicability of each to the child in relation to causes and conditions of exceptionality. Development of skills in interpreting and writing case histories and reports in selection and application of remedial techniques and evaluation of progress.

Prerequisite: A course in tests and measurements or its equivalent.

70.552 SPECIAL PROJECT

3 semester hours

Designed to further student's own interest and competency in an area of special education for the exceptional child. Library research or individual projects involving service to the exceptional person may be agreed upon and conducted under supervision of a staff member.

70.554 DISORDERS OF WRITTEN COMMUNICATION

3 semester hours

This course is designed for graduate students with at least minimal background in the area of written language, i.e., decoding and encoding processes. Course content includes a review of the development and acquistion of reading, spelling, and writing. In-depth study of specific disorders, etiological factors, developmental, and remedial techniques and practices will be included. Specific topics for scholarly research papers will be determined according to individual needs, experience, and interest. Students will be required to demonstrate proficiency in all aspects of written language.

70.559 SEMINAR IN EDUCATION OF EXCEPTIONAL INDIVIDUALS

3 semester hours

Research oriented and devoted in its entirety to problems in the education of exceptional individuals. The problems may be theoretical or practical. Consideration is given to those that are of individual interest to the student.

70.560 NEUROLOGICALLY IMPAIRED INDIVIDUAL

3 semester hours

Terminology necessary to interpret diagnostic reports, classroom techniques for managing brain-injured individuals, preparation to work with individuals with specific learning disabilities that are related to neurological dysfunction and concomitant behavior.

70.562 PROBLEMS OF INDIVIDUALS WITH IMPAIRED MOTOR DEVELOPMENT

3 semester hours

This course is designed to give the students information and experience with the problem of individuals with educationally relevant motor disabilities. The course covers normal motor development; formal and informal assessment of motor skills and problems; developmental and corrective preschool and elementary school programs; conditions resulting in severe motor disabilities, self-care, academic, and psycho-social aspects of physical disability; prevocational and vocational adjustment of the physically handicapped; and current issues related to research and litigation.

70.565 READING AND INTERPRETING RESEARCH IN SPECIAL EDUCATION

3 semester hours

This course is designed to aid the student in reading, understanding, and evaluating the results of statistical and behavioral research carried out by others. Areas covered include a working knowledge of basic statistical terms, an introduction to the type of research questions that can be answered by various statistical procedures, a knowledge of the basic steps of hypothesis testing, an analysis and comparison of excellent and poor research designs, and the development of an ability to detect misuse of statistics.

70.570 FOUNDATIONS OF BEHAVIOR DISORDERS

3 semester hours

An information-based course covering the characteristics of children with behavior disorders, approaches to remeditation, general principles of classroom management, simulated problem solving, ideal academic models for children with behavior disorders, research findings, and sources of information.

70.571 INTERVENTION WITH BEHAVIOR DISORDERED INDIVIDUALS

3 semester hours

A field-based experience where majors meet in class and are given assignments to perform in their classrooms. Observations are made, and feedback is provided. Results of interventions are shared in group class sessions, and strategies are multiplied for all.

70.572 SEMINAR ON BEHAVIOR DISORDERS

3 semester hours

A regularly scheduled seminar group composed of those who have completed the first two courses in the master's behavior disorders sequence. The group will deal with reading new research and discussing implications for applications, as well as future directions, moral issues and more advanced systems of management and instruction.

70.590

DIAGNOSTIC AND TEACHING PRACTICUM IN LEARNING DISABILITIES

3-6 semester hours

Opportunity to work in a structured setting on a one-toone and small group basis. Practicum is the culminating activity wherein the teacher will apply the knowledge previously acquired in academic courses through the interpretation of diagnostic reports, evaluating children's needs, planning, and carrying out programs and making recommendations for the child's future educational program.

70.591 PRACTICUM IN TEACHING THE MENTALLY RETARDED AND PHYSICALLY HANDICAPPED

3 semester hours

This practicum course is designed to facilitate in-service training for teachers who are currently certified to teach the mentally retarded and physically handicapped. Students will select an area of primary interest to them; and under closely supervised conditions (by the instructor), the project will be conducted as part of his or her regular professional assignment. Permission to register for the course must be obtained from the instructor assigned to supervise the practicum.

70.592 INTERVENTION IN GIFTED/ TALENTED EDUCATION

3 semester hours

This course is designed to facilitate practical training of individuals interested in acquiring a gifted/talented master's degree. The student will, under close supervision by a department faculty member, select an area of interest and contract for a project that enables the student to demonstrate a mastery of a set of competencies considered germaine to the objectives of this course. Permission for this course must be obtained from the instructor to supervise the practicum.

70.595 INTERNSHIP

3-6 semester hours

Internship in special education. Supervision to take place in schools or educational situations under supervision of the local supervisor and graduate faculty.

70,599 MASTER'S RESEARCH PAPER

3-6 semester hours

Opportunity to employ accepted methods of educational research in the solution or intensive study of some problem area of interest or concern. The problem area selected for the research project must be related to the exceptional person.

COMMUNICATION DISORDERS

(Code 74)

Master of Science Degree in Communication Disorders

Purposes: The purposes of the graduate program in communication disorders are (1) to prepare clinicians in speech and language pathology and audiology for schools, hospitals, and clinics and (2) to prepare teachers of the hearing impaired. Students in speech and language pathology and audiology who wish to meet requirements for the Certificate of Clinical Competence of the American Speech and Hearing Association should refer to the department's sheet of requirements. Students in education of the hearing impaired may satisfy the requirements for certification by the Council on Education of the Deaf. Admission requirements and prerequisites:

Admission to full-time graduate study is subject to an annual quota with selection made on the basis of undergraduate Quality Point Average and the following prerequisites for the areas of study: (1) for speech and language pathology audiology--an undergraduate major in this field or the make-up of deficiencies including clinical training and practicum (2) for education of the hearing impaired--an undergraduate curriculum that included teacher certification together with courses constituting the equivalent of a minor in communication disorders. Deficiencies must be made up without graduate credit. Required courses: Master's research paper or department paper; courses and practicum to fulfill requirements for the desired credentials selected subject to the approval of the adviser.

Elective courses: Elective courses may be chosen with approval of the adviser from categories 70, 74, and 48.

COURSE DESCRIPTIONS

74.403 INTRODUCTION TO MANUAL COMMUNICATION FOR THE HEARING IMPAIRED

3 semester hours

Studies the basic sign language vocabulary and fingerspelling techniques used in communicating with hearing impaired individuals. Emphasis is placed on developing proper receptive and expressive skills--required for an effective communication process to occur.

74.452 ANATOMY OF SPEECH AND HEARING MECHANISMS

3 semester hours

Embryology, anatomy, neurology, and physiology of the larynx and ear are studied. The actual processes involved in human speaking and hearing are explored. A cooperative lecture series is developed for the students by the medical staff at Geisinger Medical Center.

Prerequisite: 74.351

74.460 PSYCHOLINGUISTICS

3 semester hours

Language as a psychological phenomenon, nature and acquisition of meaning and the learning of systems, influences of verbal and nonverbal antecedent conditions on both verbal and nonverbal learning. Descriptive models of language mediators in behavior.

Prerequisite: 74.251, 276

74.467 APPLIED BEHAVIOR ANALYSIS IN SPEECH AND LANGUAGE THERAPY

3 semester hours

Applications of the psychology of learning to communicaivete behavior and clinical problems. Current educational and therapeutic trends and practices.

Prerequisite: 74.351

74.471 SEMINAR IN SPEECH PATHOLOGY 3 semester hours

This course is designed to survey the most current diagnostic and clinical procedures available in speech-language pathology and to discuss the applicability of the procedures to the clinical populations being serviced by the seminar students.

74.472 MEASUREMENT OF HEARING LOSS

3 semester hours

The anatomy and physiology of the hearing mechanisms are studied. Etiology of hearing losses, interpretation of audiometric evaluations, and available rehabilitative procedures are discussed. Laboratory experience in the administration of clinical audiometric evaluation is provided.

Prerequisite: 74.276, 376

74.490 COUNSELING NEEDS OF COMMUNICATIVELY DISORDERED INDIVIDUALS AND THEIR FAMILIES

3 semester hours

This course is designed to help students to identify counseling needs of communicatively disabled individuals and their families and to provide basic, short-term counseling. Students will be introduced to various counseling strategies in individual and group settings as appropriate to schools and speech and hearing clinics.

74.501 INTRODUCTION TO MANUAL COMMUNICATION WITH THE DEAF

3 semester hours

This course involves a study of basic sign language vocabulary and fingerspelling techniques used in communication with hearing impaired individuals. Emphasis is placed on developing proper expressive and receptive skills.

74.502 COMMUNICATION II

3 semester hours

This course involves a study of intermediate/advanced sign language, vocabulary, and fingerspelling techniques used in communication with hearing impaired individuals. Emphasis is placed on developing and improving proper expressive skills. Topics covered include Signed English, American Sign Language, and sign language systems.

Prerequisite: 74.501 or equivalent skills.

74.503 AMERICAN SIGN LANGUAGE I

3 semester hours

This course involves a study of American Sign Language (ASL) including the history of ASL and its recognition as a language. The major thrust and focus of this course will be basically grammatical.

Prerequisite: 74.502 or equivalent skills

74.504 INTERNSHIP IN SUPERVISION OF SPEECH AND HEARING PROGRAMS

3-6 semester hours

Present practices and philosophies in public school are examined. Mertis of existing programs are considered. Educational structures and national, state, and local requirements are reviewed. Research trends and advanced practices in the field are considered. Includes analyses or equipment materials, record-keeping procedures, and related materials.

74.505 SUPERVISION AND ADMINISTRATION OF SPEECH AND HEARING SERVICES

3 semester hours

General principles of supervision are examined, and professional personnel practices are explored.

74.510 OROFACIAL AND SPEECH DISORDERS

3 semester hours

The course will concentrate on orafacial structured deficits and their effect on speech. Specific attention will be given to clefts of the prepalate and palate and their sequelae on speech.

74.511 NEUROMUSCULAR SPEECH DISORDERS

3 semester hours

Etiology, diagnosis, and treatment of organic factors are subjects of intensive study. Emphasis is focused on articulatory abnormalities of speech processes caused by cerebral palsy and other neurological impairments. Implications of disorders for developmental age levels are considered.

74.512 ADULT APHASIA

3 semester hours

The study of language disorders in brain injured adults. Among the areas of concentration are the history of aphasia, the neurological basis for aphasia, symptomatology of aphasia, associated problems, intelligence and aphasia, the evaluation of language and non-language functions and current rehabilitative procedures.

74.518 CHILD LANGUAGE DISABILITIES

3 semester hours

A review of normal language acquisition with primary emphasis on the application of developmental information to the diagnosis and habilitation of language disorders in children.

74.532 HEARING AIDS AND AUDITORY TRAINING

3 semester hours

Theoretical and clinical anlayses of literature are evaluated in relation to educational and other rehabilitative measures available to individuals with serious organic and non-organic hearing problems. Study, interpretation, and evaluation of modern instruments and tests are included.

74.540 SEMINAR IN CURRENT CLINICAL PROCEDURES

3 semester hours

This course reviews contemporary diagnostic and therapeutic procedures. The class participates in selecting the specific instruments for review and study.

74.541 STUTTERING 3 semester hours

The development, diagnosis, and treatment of stuttering disorders with equal emphasis being placed upon academic understanding and clinical management.

74.553 SPEECH PATHOLOGY PRACTICUM

6 semester hours

Special clinical problems of clients are considered through advanced study and experience. Externships may be arranged in approved institutions or schools. Problem areas and student practicums must be approved by graduate adviser.

74.554 CLINICAL PRACTICUM IN AUDIOLOGY

3 semester hours

Hearing losses and deafness affecting the personal and socio-economic adjustment of individuals are evaluated and treated through supervised study and experience. Externships may be arranged in approved private and public institutions.

74.555 CLINICAL PRACTICUM IN AUDIOLOGY

3 semester hours

(See course description of 74.554.)

74.560 INTERMEDIATE SPEECH AND LANGUAGE PRACTICUM IN EDUCATION OF THE HEARING IMPAIRED

3 semester hours

This course provides an opportunity to work with hearing impaired children. The emphasis is speech and language remediation of hearing impaired individuals.

74.561 VOICE DISORDERS

3 semester hours

The diagnosis and clinical management of functional and organic voice disorders.

74.562 RESEARCH IN SPEECH AND LANGUAGE PATHOLOGY

3 semester hours

The application of clinical and non-clinical research literature to the solution of treatment problems encourtered in speech and language pathology.

74.563 RESEARCH IN AUDIOLOGY

3 semester hours

The application of clinical and non-clinical research literature to the solution of diagnostic and treatment of problems encountered in the general practice of audiology.

74.564 SPEECH FOR THE HEARING IMPAIRED

3 semester hours

Study of the principles and techniques used in development and formation of the English speech sounds by the synthetic and analytic methods with special consideration given to production, classification, and transmission of speech sounds by these methods. Supervised demonstrations and practicums are an integral part of the course.

74.565 PROBLEMS AND TRENDS IN TEACHING THE HEARING IMPAIRED

3 semester hours

Current practices and trends in education and welfare of the hearing impaired. Concerned with psychology, social adjustment, educational achievement, political and social viewpoints, learning problems, and vocational competence of hearing impaired. New techniques and methodologies.

74.566 LANGUAGE FOR THE HEARING IMPAIRED

3 semester hours

Study of the principles and techniques used in the development and correction of language for the hearing impaired. The student is made familiar with leading systems of language designed for the hearing impaired and proficient in the step-by-step development of at least one language system. Supervised demonstrations and practicums are an integral part of the course.

74.567 LANGUAGE FOR THE HEARING IMPAIRED II

3 semester hours

Study of structured approaches to teaching spoken and written language, of language assessment devices, appropriate lesson planning, etc. Supervised demonstrations and presentations are an integral part of this course.

74.568 COMMUNICATION FOR THE HEARING IMPAIRED

3 semester hours

Study of the expressive and receptive methods of communication used by the hearing impaired with emphasis on new techniques and methodologies.

74.569 CURRICULAR SUBJECTS FOR THE HEARING IMPAIRED

3 semester hours

Practices, content, and methods of teaching school subjects to the hearing impaired are examined with emphasis on content and methods rather than theory.

74.570 PRACTICUM WITH THE HEARING IMPAIRED

6 semester hours

Hearing losses affecting the communicational, educational, and vocational adjustment of individuals are evaluated through supervised observation, clinical practice, and practicum experience. Students are assigned to approved private and public programs for the hearing impaired where they work with selected professionals in communication disorders, following the same schedules and assuming responsibilities similar to those of professionals. Arrangements relating to student interest must be approved by program adviser.

74.571 SEMINAR IN COMMUNICATION DISORDERS

3 semester hours

Selected theoretical and clinical areas of communication disorders and related disciplines. Selected areas may include clinical and research topics pertaining to student needs.

74.572 SEMINAR IN AUDIOLOGY: SPECIAL PROBLEMS

3 semester hours

Analysis, interpretation, and study are made of selected problems in audiology and related disciplines that may include education, psychology, otology, rehabilitation, and other fields.

74.573 SEMINAR IN AUDIOLOGY: INDUSTRIAL AND PUBLIC HEALTH AUDIOLOGY

3 semester hours

Problems and programs of hearing conservation in public institutions and industries are examined with special emphasis on legislation and medico-legal questions. The role and function of the public health and industrial audiologist is examined.

74.574 SEMINAR IN AUDIOLOGY: AUDITORY PROBLEMS IN CHILDREN

3 semester hours

Congenital and acquired hearing impairment in children is examined with special emphasis on problems of differential diagnosis. Educational and social implication of hearing impairment in children is disucssed in conjunction with appropriate habilitative procedures.

74.576 SEMINAR IN AUDIOLOGY: THEORETICAL AND CLINICAL MASKING

3 semester hours

The neurophysiological and acoustic basis of problems of masking in auditory measurement are explored, and training is offered in clinical masking procedures.

74.58 INDEPENDENT STUDY AND RESEARCH

3 semester hours

This course permits students to work under close faculty guidance, on library study of specified areas, or on individual research projects when particular needs cannot be met by registration in regularly scheduled courses.

74.581 INDEPENDENT STUDY AND RESEARCH

3 semester hours

(Refer to description for 74.580.)

74.582 INDEPENDENT STUDY AND RESEARCH

3 semester hours

(Refer to description for 74.580.)

74.584 RESEARCH IN HEARING IMPAIRMENT

3 semester hours

74.590 PROBLEMS AND SPECIAL TOPICS IN EDUCATION AND HABILITATION OF THE HEARING IMPAIRED

1-6 semester hours

74,599 MASTER'S THESIS

3-6 semester hours

SCHOOL OF HEALTH SCIENCES

Nursing

Master of Science Degree in Nursing

Programs of study: The Bloomsburg University Department of Nursing offers a Master of Science in Nursing in psychiatric/community mental health, community health, and adult health and illness. The programs of study prepare graduates as clinical specialists in the advanced practice of professional nursing. A minimum of 36 credits is required for graduation.

Admission requirements: In addition to meeting the admission requirements of Bloomsburg University, the student must have (1) a bachelor's degree with a nursing major from an NLN accredited program; (2) a license to practice nursing in the United States; (3) at least one year of clinical practice, post baccalaureate degree; (4) graduate record examination (verbal, quantitative, analytical): composite score-1,200 minimum; an undergraduate QPA of 3.00; successful completion of an undergraduate course in (a) statistics, (b) research, (c) health assessment (as separate course or integrated content); (5) three letters of professional recommendation submitted; (6) a narrative submitted about personal and professional goals for graduate education. Following a preliminary review of admission materials, qualified students are given a personal interview with faculty members. Note: Applicants who do not meet the identified requirements for admission will be considered on an individual basis. These applicants may be admitted on a provisional basis until such time as (1) identified prerequisties are completed or (2) potential abilities for graduate education are demonstrated.

Required courses: I. core courses: 82.501, 502, 503, 590 (12 semester hours); II. advanced cognates* (3-6 semester hours); III. clinical specialization (12-18 semester hours); and IV. education/administration cognates* (6 semester hours).

Electives: A graduate course* (3 semester hours) may be selected with the approval of the adviser.

*Courses will be chosen by the student and adviser based on career needs. The education cognates can be selected from education courses offered in the College of Professional Studies; the advanced cognates and electives may be selected from courses in psychology, sociology, political science, communication disorders, and speech communication.

NURSING (Code 82)

COURSE DESCRIPTIONS

82.501 RESEARCH 3 semester hours

A course designed to prepare students to initiate, conduct, and utilize research in improving the quality of health care for clients. The course focuses on the consideration of nursing theories for theoretical frameworks, the use of appropriate research process and methodology, and the planning and development of a research proposal.

82.502 CONCEPTUAL MODELS IN NURSING

3 semester hours

A course designed to explore theory building and levels of theory, the relationship of models to theories, the elements of a model, and major conceptual models in nursing practice. Students will do an indepth analysis of one specific conceptual model in nursing.

82.503 ROLE THEORY AND DEVELOPMENT IN NURSING PRACTICE

3 semester hours

Examines the components of role theory and their applicability to the students in advanced clinical practice in nursing. Students apply principles and strategies inherent in the theory to problems, issues, and concerns in functional role development of the clinical nurse specialist.

82.504 PHYSICAL ASSESSMENT

3 semester hours

This course focuses on broadening the students' knowledge and perspective of physical assessment of individuals across the life span. Learning experiences are provided to develop a systematic approach to physical assessment with synthesis of cognitive knowledge with psychomotor skills. Throughout the course, emphasis is placed on the wellness component of physical assessment with reference to major health deviations.

82.505 ADVANCED PATHOPHYSIOLOGY

3 semester hours

This course presents selected aspects of genetic, biochemistry, physiology, and pharmacology as applied to nursing practice. Embryonic, histologic, and gross anatomical features of certain organ systems are functionally related to biochemical and physiological mechanisms essential for the maintenance of a stable internal environment. Some deviations from normal metabolism, structure, and function are considered.

82.510 PSYCHIATRIC/MENTAL HEALTH NURSING I

6 semester hours

This course presents theory concurrent with advanced clinical practice in psychiatric/mental health nursing. Student examines theoretical formulations in nursing and related disciplines and select a conceptual framework as a model for clinical practice. The students employ the nursing process with increased expertise and accountability as they work individually and collectively with individuals, families, and the interdisciplinary health team in the promotion of mental health and the treatment of mental illness. Research is utilized and initiated as a means of improving the quality of mental health care. Clinical practicum is provided in a variety of hospital and community settings in which students may implement the roles of clinician, administrator, educator, consultant, and researcher.

82.511 COMMUNITY HEALTH NURSING I 6 semester hours

This course focuses on advanced professional practice in the multifaceted roles of the community health clinical specialist. Students employ advanced knowledge and skills derived from an analysis of nursing theories, models, and community health nursing practice in implementing health promotion, maintenance, and restoration strategies with highrisk individuals, families, and community aggregates in a variety of health care settings. Students assume leadership roles in working independently and interdependently with clients and health professionals to improve the quality of health care delivery. A weekly seminar session provides opportunities for students to analyze the impact of current trends and issues on contemporary practice and to formulate strategies to effect positive change.

82.512 ADULT HEALTH AND ILLNESS NURSING I

6 semester hours

This course presents theory content with advanced clinical nursing practice in adult health and illness. Graduate students examine the theoretical formulations in nursing and related disciplines to the adult client's ability to adapt to maturational and situational stressors. The students utilize the nursing process with increased expertine and accountability with individuals, families, communities, and the interdisciplinary health team in the promotion of adult health and the treatment of adult illness. Research skills are enhanced through seminar presentations, clinical experiences, and written course assignments aimed at improving the quality of adult health care. Clinical practicums is provided in a variety of primary, secondary, and tertiary health care settings in which students begin to implement the clinical specialist's roles of clinician, administrator, educator, consultant, and researcher.

82.513 MANAGEMENT AND ORGANIZATIONAL BEHAVIOR I 3 semester hours

A course designed to explore the concepts of organizational styles and the theories of management behavior related to the role of the clinical specialist in

advanced nursing practice. The course focuses on leadership theories, strategies for motivation and change, the concepts of power, and influence and organizational decision making.

82.514 INDEPENDENT STUDY

3 semester hours

The student works with a faculty preceptor in conducting an individualized study related to a particular area of clinical interest.

82.530 PSYCHIATRIC/MENTAL HEALTH NURSING II

3 semester hours

Advanced professional practice in the multifaceted roles of the clinical nurse specialist in psychiatric/mental health care. Students apply advanced knowledge of theories and skills in the provision of mental health care to clients in a variety of settings and collaboratively with clients and other health professionals in improving the quality of mental health care delivery. Weekly seminar sessions provide opportunities to apply theory to practice as students analyze problems, issues, and concerns in professional practice as a psychiatric/mental health clinical nurse specialist.

82.531 COMMUNITY HEALTH NURSING II 6 semester hours

This course is designed to provide the student opportunity for advanced professional practice in a variety of community settings in the multifaceted roles of the community health clinical nurse specialist. The focus is analysis of risk factors of existing and/or potential health problems as they occur at the community level. Students assume responsibility positions, functioning both independently and collaboratively with clients and other health professionals in improving the quality of health care delivery in the community. Weekly seminar sessions emphasize aspects of health planning. Opportunity is provided for the application of theory to practice as students analyze problems, issues, and concerns in professional practice as a community health clinical nurse specialist. Clinical practicum is provided in a variety of community settings. Arrangements relative to the clinical practicum are mutually derived by faculty, students, and appropriate agency personnel.

82.532 ADULT HEALTH AND ILLNESS NURSING II

6 semester hours

This course concentrates on advanced professional nursing practice as a clinical nurse specialist within a specialized area of adult health and illness. Through independent study of current concepts, trends, and research within the specialized area of adult health and illness, students apply this advanced knowledge of theories and skills in the provision of adult health care to clients in a variety of settings. Students enhance the multifaceted roles of the clinical nurse specialist in adult health and illness by assuming leadership positions in a health care setting and functioning both independently and collaboratively with clients and other health professionals in improving the quality of adult health care delivery. Weekly seminars

provide opportunities to analyze current concepts, practice, trends, issues, and research within the specialized area of adult health and illness as a clinical nurse specialist.

82.533 MANAGEMENT AND ORGANIZATIONAL BEHAVIOR II

3 semester hours

Seminar format that explores model building and the future direction of organizational structure for advanced nursing practice. Focus will be on organizational environments and planned change in the health care delivery system.

82.590 THESIS 3 semester hours

The development and presentation of a formal thesis in the student's area of clinical specialization.



COLLEGE OF BUSINESS

BUSINESS EDUCATION

Master of Education Degree in Business Education

Purpose: This specialization is intended to contribute to the professional maturation of the teacher of business subjects in secondary schools.

Prerequisite: Level I certification to teach business subjects.

Required: Educational studies 60.501, 79 591; Master's Research Paper (90.599); or Business Seminar (90.581); business 90.561; and additional courses from the specialized subject matter and specialized professional education areas. Electives: Graduate courses from categories 90-97 should be elected with approval of the adviser. Courses should be chosen that will extend and reinforce the student's knowledge, techniques, and skills and provide critical understanding of current research in business education. The amount of elective credit may be determined from the comprehensive plan for the degree. (Master of Education Degree section)

COURSE DESCRIPTIONS

BUSINESS EDUCATION (Code 90)

90.460 BUSINESS AND OFFICE EDUCATION WORKSHOP

1-3 semester hours

Addresses those educational ideas and experiences that encourages, support, and guide participants to acquire an increased understanding of the accummulated knowledge pertaining to the development of business skills, the enhancement of business education as a profession, and the determination of the business and office personnel's responsibility and role in the business world.

90.533 BUSINESS STATISTICS

3 semester hours

Principles applicable to, and procedures used in, collecting, tabulating, analyzing, presenting, and interpreting business and economic data. Measure of central tendency, sampling, time series, correlation, and index numbers.

90.534 PRINCIPLES OF INSURANCE

3 semester hours

Principles applicable to and uses of life, marine, casualty, and fire insurance contracts; basic legal concepts pertaining to insurance contracts and the responsibility of underwriters.

90.551 IMPROVEMENT OF INSTRUCTION IN BUSINESS SUBJECTS

3 semester hours

Current practices in the teaching of perceptual motor skill subjects are studied with particular emphasis on the psychology of perceptual motor learning. Attention is given to development of research-based teaching strategies and instructional materials, evaluative techniques, development of standards, selection of equipment, and planning courses of study.

90.552 IMPROVEMENT OF INSTRUCTION IN BASIC BUSINESS SUBJECTS

3 semester hours

The contribution which basic business subjects can make to the educational program of the secondary school. Currenlty accepted methods and techniques of teaching such basic business subjects a s general business, business law, and elementary economics; teaching aids to effective instruction.

90.553 IMPROVEMENT OF INSTRUCTION IN ACCOUNTING AND BUSINESS MATHEMATICS

3 semester hours

Recent developments in methods of teaching bookkeeping and business arithmetic and a critical analysis of objectives serve as a basis for increasing the competence of the teacher of these subjects. Consideration is given to teaching aids to improve the effectiveness of the classroom instructor.

90.561 FOUNDATIONS OF BUSINESS EDUCATION

3 semester hours

A study of the historical beginnings and present status of business education. The course serves as a basis for developing and understanding of the objectives and the philosophies underlying present-day vocational programs in the public school. Students are afforded the opportunity to become more deeply acquainted with current research in business education and up-to-date contribution of professional organizations.

90.562 CURRENT PROBLEMS IN BUSINESS EDUCATION

3 semester hours

The major problem areas in business education as revealed by the experience of students are studied with a view toward improving the competence of classroom teachers in coping with their responsibilities in the schools. The course is designed to foster a research attitude toward teaching problems. Teaching experience is strongly recommended as a prerequisite.

90.563 EVALUATION IN BUSINESS EDUCATION

3 semester hours

Objectives of measurement in business education; evaluative devices and their effective use.

90.564 ADMINISTRATION AND SUPERVISION OF BUSINESS EDUCATION

3 semester hours

A study of principles and techniques associated with educational administration serve as the basis for a consideration of administrative and supervisory classroom planning, budgeting, maintenance of records, selection and purchase of equipment and supplies, federal and state funding, and current trends.

90.581 SEMINAR IN BUSINESS EDUCATION

3 semester hours

An investigation and evaluation of completed research in business education. The student submits written reports which are used as the basis for class discussions.

ACCOUNTING (Code 91)

91.521 ADVANCED COST ACCOUNTING

3 semester hours

Advanced cost accounting provides a thorough understanding of the basic concepts and practical procedures of reporting cost information to business management. Special emphasis is placed upon the use of budgetary control and budget analysis; the use of standard costs; the relevance of management's costs and profit responsibility reports; and the importance of capital expenditure planning and control.

Prerequisite: 91.348

91.522 ADVANCED AUDITING THEORY

3 semester hours

A review and analysis of the complex ethical concepts of the accounting profession and their historical development. A survey of both old and new areas in the field of auditing, stressing the use of auditing data for managerial and other purposes. Careful analysis of the logical development of auditing principles and concepts.

Prerequisite: 91.342

91.523 ADVANCED TAX ACCOUNTING

3 semester hours

Interpretation of federal and state partnership and corporate income tax laws. Case studies are employed to illustrate the proper preparation of returns, tax planning, and research techniques. Social security taxes, gift taxes, and estate taxes.

Prerequisite: 91.324

INFORMATION PROCESSING

(Code 92)

92.550 INFORMATION PROCESSING

3 semester hours

A comprehensive introduction and basic orientation to the use of information processing in the educational environment. The student will be required to investigate the impact of the computer and associated peripheral devices on the classroom. Effective use of available computer resources will be emphasized.

92.552 PROGRAMMING LANGUAGES

3 semester hours

Designed to familiarize educational personnel with the various programming languages available for educational training and administration. The student will be required to interface directly with a computer through terminals, explore language manuals, and technical literature and to define, write, test, and debug a program using several programming languages. Prerequisite: 92.550 or consent of instructor.

92.554 MANAGEMENT INFORMATION SYSTEMS

3 semester hours

A study of information analysis and systems design from the user's point of view. The student will identify the basic concepts of the following: the systems point of view, the organization as a system, information flows, and the nature of management information systems. Data bases and data base management systems will be investigated from the manager's perspective.

Prerequisite: graduate standing

92.556 SYSTEMS DESIGN AND APPLICATION

3 semester hours

Assisting educational personnel to utilize the full capabilities of the computer in his or her own classroom constitutes the major objective of this course. Using the computer as a tool of research and calculation, simulation games, computer-assisted testing, computer-managed instruction, and computer-assisted instruction are explored through readings, discussions, demonstrations, and guest lecturers. This course also includes the basic concepts of systems analysis, feasibility, design, and implementation.

Prerequisite: 92.552 or consent of instructor

SECRETARIAL (Code 94)

94.412 ADVANCED SHORTHAND WORKSHOP

3 semester hours

An introduction to different shorthand systems-machine, symbol, and non-symbol. Development of a degree of proficiency in the use of a different shorthand system through dictation and transcription. A review of the techniques and methods of teaching shorthand. Students are required to research the implementation of shorthand systems. This course is not applicable toward shorthand certification. (Undergraduate or graduate credit)

Prerequisite: 94.301 or 302

FINANCE (Code 96)

96.531 PROBLEMS IN CORPORATION FINANCE

3 semester hours

Problems in organizing and financing operations of industrial corporations, public utilities, and railroads. Special attention is given to the kinds of corporate securities used to secure both short-term and long-term capital.

96.532 PROBLEMS IN PUBLIC FINANCE

3 semester hours

Principles governing the budgeting and financing of federal, state, and local government operations; analysis of the effects of public expenditures, taxation, and debt management on the economy of the United States.

MARKETING

(Code 97)

97.541 RESEARCH IN MARKETING

3 semester hours

An introduction to marketing research.

Prerequisite: 97.310 or consent of the instructor

THE MASTER OF BUSINESS

Master of Business Administration Degree

Philosophy and objectives: The program for the degree, Master of Business Administration (MBA), is planned to reflect the curriculum standards of the American Assembly of Collegiate Schools of Business. It is oriented toward the decision-making responsibilities of management; consequently, it is broad-based and aims to develop perspective. It also provides a limited opportunity to elect courses in an area of specialization.

Admission to the courses of the program:

Enrollment in the program is limited; therefore, admission to the courses is selective. The applicant must hold a baccalaureate degree from an accredited college or university. While no undergraduate major is prescribed, a minimum body of 30 credits in background courses in basic business subjects is required as outlined herein. The overall quality point average must have been 2.50 or higher; or if based on only the last two years of undergraduate work, must have been a 2.75 or higher. Requirements for admission to the Master of Business Administration program are based on a combination of undergraduate grade point average and score on the Graduate Management Admissions Test (GMAT). A score of 950 or more points must be achieved based on the formula: 200 times the overall undergraduate grade point

average plus the GMAT score, or at least 1,000 points based on the formula, 200 times the last two years of undergraduate grade point average plus the GMAT score.

Admissions criteria include the GMAT score, the undergraduate record, statements by two references, and job experience. For applicants whose native language is not English, the TOEFL (Educational Testing Services, Princeton, N.J.) is required with at least a 550 score in order to be considered.

Admission to candidacy for MBA degree:

Admission to the courses of the program does not imply admission to candidacy for the degree. The procedure for admission to candidacy is described in the section Admission to Candidacy for a Master's Degree.)

Program of study: The total program for the MBA degree comprises two levels of courses. Level I consists of background courses or experiences that are prerequisite to Level II. Students whose undergraduate major was in business administration are likely to have had most, or perhaps all, of the courses of Level I; they may be exempted from courses that duplicate their undergraduate work. Level I must be completed before entering the Level II program. The courses of Level I are Financial Accounting or Principles of Accounting II, Principles of Management, Principles of Marketing, Statistics, Business Law, Business Finance, Principles of Economics (two semesters), and two semesters of mathematics including one semester of calculus. In the Undergraduate Catalogue, these are numbered respectively: 91.220 or 222, 93.344, 97.310, 40.346, 98.331, 96.313, 40.211 and 212, and 53.123; plus one additional advanced mathmatics course. Level II consists of 36 semester hours of graduate credit of which 30 are prescribed and six are elected.

The prescribed courses are:

93.457	BUSINESS AND SO	CIETY
		3 semester hours
93.511	STATISTICAL ANALYSIS	
	OR DESIGN	
		3 semester hours
93.512	MANAGERIAL ECO	ONOMICS
		3 semester hours
93.560	OPERATIONS MAN	IAGEMENT
		3 semester hours
93.562	ORGANIZATION T	HEORY
		3 semester hours
93.563	OPERATIONS RESI	EARCH
		3 semester hours
93.566	ORGANIZATIONAL BEHAVIOR	
		3 semester hours
93.581	POLICIES	3 semester hours
96.535	FINANCIAL MANA	GEMENT
		3 semester hours
97.551	MARKETING MANAGEMENT	
		3 semester hours

Two courses must be elected in accounting, marketing, finance, or management. Elective courses may be chosen from:

91.501	FINANCIAL ACCOUNTING		
	3 semester hours		
91.502	ADVANCED FINANCIAL		
	ACCOUNTING		
	3 semester hours		
91.503	GOVERNMENTAL FUND		
, _,,	ACCOUNTING		
	3 semester hours		
91.524	MANAGERIAL ACCOUNTING		
	3 semester hours		
92.554	MANAGEMENT INFORMATION		
	SYSTEMS		
	3 semester hours		
93.561	OPERATIONS PLANNING AND		
	CONTROL		
	3 semester hours		
93.583	HUMAN RESOURCES		
	DEVELOPMENT		
	3 semester hours		
96.550	SECURITY ANALYSIS &		
	PORTFOLIO MANAGEMENT		
	3 semester hours		
96.565	SEMINAR IN FINANCE		
	3 semester hours		

Or courses can be taken with permission of the dean from the following senior level undergraduate courses (for course descriptions, see Undergraduate Catalogue):

93.440	SMALL BUSINESS INSTITUTE	
	SEMINAR	
	3 semester hours	
42.472	HISTORY OF LABOR IN THE	
	UNITED STATES	
	3 semester hours	
96.454	FINANCIAL MANAGEMENT	
	DECISIONS	
	3 semester hours	

ACCOUNTING (Code 91)

93.440 SMALL BUSINESS INSTITUTE SEMINAR

1-3 semester hours

Teams of students will work with local businesses in a consultancy capacity to aid in the resolution of actual business problems. Work will include analysis of the problem, determination of alternative solutions, recommendation of the optimum course of action by means of an oral presentation to the business owners, and a written report to the Small Business Administration's regional office.

91.501 FINANCIAL ACCOUNTING

3 semester hours

Emphasis on asset valuation, income determination, and financial accounting principles with selected topics from the funds statement and analysis and interpretation of financial statements.

Prerequisite: 91.524

91.502 ADVANCED FINANCIAL ACCOUNTING

3 semester hours

Advanced problems in consolidated satements, stockholder's equity partnership, fiduciary accounting, and selected topics dealing with government units, and nonprofit service organizations. Selected reference to professional literature and uniform C.P.A. examination problems.

Prerequisite: 91.501

91.503 GOVERNMENTAL FUND ACCOUNTING

3 semester hours

Accounting principles and practices of governments and nonprofit institutions. Comparisons between accounting principles and practices that apply to governments and nonprofit institutions and those that are generally accepted in business.

Prerequisite: 91.502

91.524 MANAGERIAL ACCOUNTING

3 semester hours

The major objective of the course is to show how accounting data can be used to help solve the problems of business management. Attention also will be given to the use of accounting data by investors and potential investors whenever possible.

MANAGEMENT (Code 93)

93.511 STATISTICAL ANALYSIS

3 semester hours

Statistical principles and procedures basic to research in business and interpretation of data.

93.512 MANAGERIAL ECONOMICS

3 semester hours

Economic analysis of the firm and its environment. Determination of prices, output, and employment.

93.560 OPERATIONS MANAGEMENT

3 semester hours

Analysis of manufacturing and service systems and application of decision making to operational and policy problems.

93.561 OPERATIONS PLANNING AND CONTROL

3 semester hours

Examination of research findings in operations management with focus on the operation and control of the system.

Prequisite: 93.560

93.562 ORGANIZATION THEORY

3 semester hours

Comparative examination of major approaches to the study of organizations. Theories and research findings applied to practical situations. Topics include organization structure, systems of power and influence, organizational conflict and cooperation, individual motivation, group process, behaviorial science research, and its implications for management.

93.563 OPERATIONS RESEARCH IN BUSINESS

3 semester hours

Construction and use of quantitative models in business decision making.

93.566 ORGANIZATIONAL BEHAVIOR

3 semester hours

This course focuses primarily on internal organizational issues with appropriate recognition given to personal and external organizational background factors. More specifically, this course deals with the human aspects of organization, spotlighting the group and individual. Included are not only the findings and conceptual models of those who have conducted empirical behavior research and struggled to make sense of what has been observed--but also the behaviors of class members.

Among specific concepts to be included are roles, norms, cohesive and divisive processes, social and status aspects are explored including self concept, personal perception, goals, feelings, ego, responsibility, decisions, conditioning, and personal functioning.

Prerequisite: 93.560

93.581 POLICIES 3 semester hours

Complex industrial situations are examined for the purpose of determining the strategy to insure long-run survival and growth in competitive markets. Emphasis is on problem-solving skills, implementation of optimal decisions, nature of strategic analysis including selected cases involving production, pricing, capital investments, and their interaction with other factors.

Prerequisite: Must be taken in the last semester of the student's program.

93.583 HUMAN RESOURCES DEVELOPMENT

3 semester hours

The course focuses on the current research and theory related to the management and development of human resources in organizational settings. Specific emphasis is placed on basic principles of behavior, motivation, training and development, leadership, and performance in organizations.

FINANCE (Code 96)

96.454 ADVANCED FINANCIAL MANAGEMENT

3 semester hours

The study of business financial problems and the development of advanced financial management practices as used in the decision-making role of the financial manager.

96.535 FINANCIAL MANAGEMENT

3 semester hours

Extensive and in-depth study of management activities involved in the financial aspects of the business enterprise. Theoretical knowledge gained through exposure to financial management literature is applied to problem situations through the use of case studies and simulation techniques. Emphasis is placed on the development of perspective in the decision-making process with the acquisition of tools to facilitate effective decision making.

96.550 SECURITY ANALYSIS AND PORTFOLIO MANAGEMENT

3 semester hours

An advanced treatment of aspects involved in developing a logical and systematic approach to analyzing and evaluation types of securities. Investment strategy and management of an investment portfolio. Theoretical aspects of security analysis and problems involved in analyzing and evaluation securities within the context of the type of industry issuing them.

96.565 SEMINAR IN FINANCE

3 semester hours

Seminar on unresolved problems in the field of finance with investigations to include such areas as models for financial decision making, money, and capital markets and simulation problems.

MARKETING (Code 97)

97.551 MARKETING MANAGEMENT 3 semester hours

Application of the managerial processes of analysis, organization, planning, and control of marketing activities: marketing concepts, analysis of marketing opportunities, growth and competitive strategy, marketing information system, buyer behavior, and product development.



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